

1997 Cancer in Alaska
Cancer Incidence and Mortality



State of Alaska

Tony Knowles, Governor

Department of Health and Social Services

Karen Perdue, Commissioner

Division of Public Health

Peter Nakamura, MD, MPH, Director

Alaska Cancer Registry

September 1, 2000

Cancer Incidence and Mortality in Alaska, 1997

Annual Report of the Alaska Cancer Registry, 1997
September 1, 2000

Prepared by:

John P. Middaugh, MD
Jeanne Roche, RN, MPH, CTR
Michele Czajkowski, MS, CTR
Elizabeth Blair, RNC, MSN, CTR
David O'Brien, Ph.D.
Section of Epidemiology

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For more information or additional copies of this report contact:

Alaska Cancer Registry
Section of Epidemiology
3601 C Street, Ste 540
P.O. Box 240249
Anchorage, AK 99524-0249
(907) 269-8000

Or visit our Website: www.epi.hss.state.ak.us

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Highlights

The Alaska Cancer Registry is pleased to release its *1997 Annual Report* which provides statewide cancer statistics for both incidence and mortality. Highlights from findings from this report are summarized below:

- During 1997, there were 1,747 invasive cancers diagnosed among Alaska residents.
- The incidence rate for all cancers in Alaska was 28% higher for males than females.
- The five most commonly diagnosed cancers among Alaska men were cancers of the prostate (24% of total incident cases), lung (17%), colorectal (11%), urinary bladder (7%) and non-Hodgkin's lymphoma (6%).
- The five most commonly diagnosed cancers among Alaska women were cancers of the breast (34% of total incident cases), lung (11%), colorectal (9%), ovary (5%) and uterus (4%).
- The urinary bladder incidence rate for Alaska males and overall is significantly higher than the U.S. rate.
- Of all the cancers diagnosed in 1997, 84% were in Alaskans 45 years of age or older.
- A total of 616 persons in Alaska died from cancer in 1997.
- The mortality rate for all cancers was 30% higher for males than females.
- For both sexes combined, the most common cancer deaths in Alaska were lung (192 deaths), colorectal (52), breast (41), pancreas (35) and ovary (28). These accounted for 56% of total cancer deaths; lung cancer alone accounted for 31%.
- Among Alaska males, the five leading cancer deaths were lung (36% of total cancer deaths), colorectal (8%), pancreas (6%), prostate (6%) and stomach (4%).
- Among Alaska females, the five leading cancer deaths were lung (25% of total deaths), breast (15%), ovary (10%), colorectal (8%) and pancreas (5%).
- Of the total cancer deaths, 54% were of Alaskans 65 years of age or older.

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Introduction

What Is Cancer?

Cancer is a group of many related diseases. All forms of cancer involve out-of-control growth and spread of cells.

The human body is made up of billions of cells. Groups of cells perform a specific function. Normally body cells grow, divide, and die in an orderly fashion. During the early years of a person's life, normal cells divide more rapidly until the person becomes an adult. After that, normal cells of most tissues divide only to replace worn-out or dying cells and to repair injuries.

Cancer cells, however, continue to grow and divide, and can spread to other parts of the body. These cells accumulate and form *tumors* (lumps) that compress, invade, and destroy normal tissue. If cells break away from such a tumor, they can travel through the bloodstream or the lymph system to other areas of the body. There, they may settle and form "colony" tumors. In their new location, the cancer cells continue growing. The spread of a tumor to a new site is called *metastasis*. When cancer spreads, though, it is still named after the body part where it started. For example, if prostate cancer spreads to the bones, it is still prostate cancer, and if breast cancer spreads to the lungs it is still called breast cancer.¹

Leukemia, a form of cancer, does not usually form a tumor. Instead, these cancer cells involve the blood and blood-forming organs (bone marrow, lymphatic system, and spleen), and circulate through other tissues where they can accumulate.¹

It is important to realize that not all tumors are cancerous. Benign tumors do not metastasize and, with very rare exceptions, are not life-threatening.¹

Cancer is classified by the part of the body in which it began, and by its appearance under a microscope. Different types of cancer vary in their rates of growth, patterns of spread, and responses to different types of treatment. That's why people with cancer need treatment that is aimed at their specific form of the disease.¹

Who Is At Risk?

Everyone. In America, half of all men and one-third of all women will develop cancer during their lifetimes. Today, millions of people are living with cancer or have been cured of the disease. The sooner a cancer is found, and the sooner treatment begins, the better the person's chances are of a cure.

It has long been estimated that approximately 70% of all cancers are due to environmental factors. "Environmental" is broadly defined as all those external factors that affect us, and includes tobacco, viruses, radiation, individual exposures from sexual or occupational practices, diet and exercise, etc., and not just what is thought of as the environmental pollution of air, water, and food.

Tobacco is the greatest risk factor for all cancers combined and is the single leading preventable cause of cancer. Excessive alcohol consumption, particularly coupled with tobacco use, and failure to eat sufficient fresh fruits, vegetables and whole grains contribute to one-third of all cancers. Reduction of these risk factors can be controlled by individual behavioral choices.

Research indicates that genes play a role, but the currently known genetic "markers" account for only a very small proportion of cancers. Future research may well identify additional genes that predispose toward cancer.

¹American Cancer Society Web Page, www.cancer.org, What is Cancer?

Although there are certain specific childhood cancers that have an expected early age peak and then are rarely seen in the rest of the population, the occurrence of cancer generally increases with age and the majority of cancers occur among adults middle-aged or older. The term *lifetime risk* is the probability that an individual, over the course of a lifetime, will develop cancer or die from it. In the U.S., men have a 1 in 2 lifetime risk of developing cancer, and for women the risk is 1 in 3.² The American Cancer Society (ACS) has published updates on probability of developing cancer; the most recent is described below:

Percentage of Population (Probability) of Developing Invasive Cancers At Certain Ages by Sex, U.S., 1994-1996*

		Birth to 39	40 to 59	60-79	Birth to Death
All Sites†	Male	1.61 (1 in 62)	8.17 (1 in 12)	33.65 (1 in 3)	43.56 (1 in 2)
	Female	1.94 (1 in 52)	9.23 (1 in 11)	22.27 (1 in 4)	38.11 (1 in 3)
Breast	Female	0.43 (1 in 235)	4.06 (1 in 25)	6.88 (1 in 15)	12.56 (1 in 8)
Colorectal	Male	0.06 (1 in 1,579)	0.85 (1 in 124)	3.97 (1 in 29)	5.64 (1 in 18)
	Female	0.05 (1 in 1,947)	0.67 (1 in 149)	3.06 (1 in 33)	5.55 (1 in 18)
Lung	Male	0.04 (1 in 2,592)	1.29 (1 in 78)	6.35 (1 in 16)	8.11 (1 in 12)
	Female	0.03 (1 in 2,894)	0.94 (1 in 106)	3.98 (1 in 25)	5.69 (1 in 18)
Prostate	Male	Less than 1 in 10,000	1.90 (1 in 53)	13.69 (1 in 7)	15.91 (1 in 6)

(American Cancer Society's Cancer Facts and Figures - 2000, reprinted with permission)

*Of those free of cancer at beginning of age interval. Based on cancer cases diagnosed during 1994-1996. The "1 in" statistic and the inverse of the percentage may not be equivalent due to rounding.

†Excludes basal and squamous cell skin cancers and in situ carcinomas except urinary bladder.

Source: DEVCAN software, Version 4.0, Surveillance, Epidemiology, and End Results Program, 1973-1996, Division of Cancer Control and Population Sciences, National Cancer Institute.

Sometimes when a family member or friend is diagnosed with cancer, the tragedy makes us more aware of others in our community with cancer and we begin to be concerned that there may be an unusually large number of cancer cases in a certain area. Sometimes this may be the case, but not often. There are a certain number of cancers that are expected to occur in any U.S. population. These are of the predominant, or leading cancers in the U.S. The rank order may vary but they will almost always be found in each community/state among the top cancer sites, and include: lung, breast, colorectal and prostate. The American Cancer Society has provided a methodology for communities to estimate their potential cancer cases/deaths.

How to Estimate Cancer Statistics Locally, 2000					
To obtain the estimated number of...	Multiply community population by:				
	All Sites	Female Breast*	Colon & Rectum	Lung	Prostate*
New cancer cases [per year] +	0.0044	0.0013	0.0005	0.0006	0.0013
Cancer deaths [per year] +	0.0020	0.0003	0.0002	0.0006	0.0002
People who will eventually develop cancer	0.4064	0.1256	0.0559	0.0683	0.1591
People who will eventually die of cancer	0.2177	0.0339	0.0245	0.0563	0.0353

(American Cancer Society's Cancer Facts and Figures - 2000, reprinted with permission)

+Added for Clarity

*For female breast multiply by female population and for prostate cancer multiply by male population.

Note: These calculations provide only a rough approximation of the number of people in a specific community who may develop or die of cancer. These estimates should be used with caution because they do not reflect the age or racial characteristics of the population, access to detection and treatment, or exposure to risk factors. State cancer registries count the number of cancers that occur in localities throughout the state. The American Cancer Society recommends using data from these registries, when it is available, to more accurately estimate local cancer statistics.

Source: DEVCAN Software, Version 4.0, Surveillance, Epidemiology, and End Results Program, 1973-1996, Division of Cancer Control and Population Sciences, National Cancer Institute.

²Cancer Facts and Figures 1998. American Cancer Society, Inc. 1998.

The Alaska Cancer Registry

This is the second Annual Report of the Alaska Cancer Registry based on the second calendar year of data collection since cancer became a reportable disease in Alaska. Every attempt has been made to present as much of the data as is feasible and reasonable. It will take several years for the Registry to have sufficient data to be able to derive any associations or conclusions related to causation, prevention, early detection and treatment.

Purpose of the Registry

The Alaska Cancer Registry is a cancer surveillance system that is population-based. The Registry collects a wide variety of information to determine cancer incidence, mortality, treatment and survival. The data are used to:

- determine the incidence of cancer in the state of Alaska with respect to geographic and demographic characteristics
- monitor trends over time for unusual patterns
- monitor early detection, evaluate the effectiveness of cancer control programs and identify areas in need of public health interventions
- determine how Alaska compares with the rest of the Nation
- provide a database and serve as a resource for health planners, medical professionals, researchers and others concerned about cancer.

History of the Registry

In 1992, as a result of the enactment of Public Law 102-515, the Cancer Registries Amendment Act, the National Program of Cancer Registries (NPCR) was established with the U.S. Centers for Disease Control and Prevention (CDC) as the lead agency. This federal legislation authorized states and territories to enhance existing cancer registries; plan and implement registries where they did not exist; develop model legislation and regulations for states to enhance viability of registry operations; set standards for completeness, timeliness and quality of data; and, provide training. In October 1994, the Alaska Division of Public Health, Section of Epidemiology, received CDC funds to plan and implement a State cancer registry.

On January 19, 1996, the Alaska Administrative Code (7 AAC 27.011) established reporting requirements for a statewide cancer registry. The regulations require all hospitals, health care facilities and health care practitioners screening, diagnosing or providing treatment for cancer patients diagnosed on or after January 1, 1996 to report this information to the Alaska Division of Public Health, Section of Epidemiology.

Data Collection

The Registry collects data on each newly diagnosed cancer case. Any facility diagnosing or treating a cancer patient is required to report specific data to the Registry if the patient is diagnosed on or after January 1, 1996. In an effort to streamline the administrative burden of a new reporting requirement, hospitals have been the reporting focus. While physicians are required to report their newly diagnosed cancer patients, this can largely be accomplished through hospital reporting. To help ensure that Alaska residents diagnosed or treated out of state are reported, the Registry has interstate agreements with a limited number of states that facilitate case reporting by their state registries to the Alaska Cancer Registry.

Only 29% of Alaska's hospitals have cancer registries where many different types of hospital records are actively screened to ensure every cancer case seen in the facility is identified. Hospital-based registries require specially trained staff for case abstracting and collect more detailed information for their internal use than is required at the State level. In non-registry hospitals, the health information management staff usually utilizes the same type of hospital records to identify cancer cases and report them to the Registry where they are reviewed and abstracted.

The Registry staff is available for technical assistance and limited training.

One of the strengths of the Registry is its use of multiple sources for identification of diagnosed cases. This includes reports from laboratories, clinics, physician offices, screening programs and other cancer treating facilities. All reports are matched electronically to avoid duplication of case counts and to obtain the most complete information on a given case.

The Registry collects information on all in situ and invasive cancers (those with behavior codes 2 or 3 in the *International Classification of Disease for Oncology*, 2nd Ed.). There are two types of cancer that are exceptions:

- Carcinoma in situ of the cervix
- Basal and squamous cell skin cancers (unless these are at a mucocutaneous junction or external genital area).

These cancers are exempt from reporting because they are rarely fatal and usually do not require hospitalization.

The specific information required to be reported on each cancer case includes demographic data (date of birth, sex, ethnicity, race, residence, etc.) and information on each primary tumor - including site, histology, staging and first course of cancer-directed treatment.

Data Quality

The Alaska Cancer Registry is a member of the North American Association of Central Cancer Registries (NAACCR) which sets standards for data definition, quality and completeness of reporting. The Registry staff work with reporting facilities to ensure cancer cases are reported on time and with high quality data. All abstracts received are manually checked for completeness and accuracy. Computerized edits are run on all submitted data before entering the central database. These edits check for valid codes and omission of required information, which must be resolved before data can be used for analysis. Computerized edits include checks for duplicate cases and other errors or inconsistencies, such as unlikely sex/site, site/morphology, or site/age combinations. Inter-record comparisons are performed for patients having more than one primary cancer so that demographic data match.

Three indicators commonly measure the quality of cancer reporting: the proportion of cases reported by death certificate only, the percentage of cases histologically confirmed and the proportion of cases with nonspecific diagnoses. The number of "death certificate only" cases gives an indication of the completeness of reporting. The number of histologically confirmed cases and the number with nonspecific diagnoses indicate the accuracy of diagnostic information.

Confidentiality of Data

Alaska law demands strict confidentiality and the protection of the identity of both cancer patients and sources reporting to the Registry. An additional law protects facilities and physicians from any liability for their reporting to the registry program. Registry personnel sign a confidentiality policy and are subject to penalty if they disclose confidential information. Access to the Registry office and all Registry data is restricted. Any research study involving data with unique identifiers must be reviewed by an Institutional Review Board, which protects rights to privacy and informed consent, with final approval resting with the Alaska Department of Health & Social Services.

Data Definitions

Incidence Data

An incident case is defined as a newly diagnosed primary cancer. A primary cancer, or site, is the cancer of origin, as opposed to a cancer that has spread, or metastasized, from another site. Since individuals can have more than one primary cancer, diagnosed either sequentially or at the same time, the number of incident cases may be greater than the number of persons who were diagnosed with cancer.

This report includes all cancer cases newly diagnosed in 1997 and reported to the Alaska Cancer Registry as of February 8, 2000. Only Alaska residents are included in the incidence data. Incidence data are presented as the number of cases, age-adjusted incidence rates, age-specific rates, and percent frequencies.

The Alaska Cancer Registry follows standard protocols so that its incidence rates can be compared with those from other registries and the U.S. These include the following:

- Most neoplasms are grouped by the organ where they arise. The organ of origination is called the primary site. Appendix I shows the groupings of codes for systems, sites, and sub-sites.
- Only invasive neoplasms, those that have penetrated the basement membrane, are included. The sole exception is cancer of the bladder, for which in situ cases are included with invasive cases. Some cancers are considered systemic, or the organs actually have no basement membrane tissue to penetrate. These cancers are indicated, where reviewed, with in situ as not applicable (n/a).
- Basal cell and squamous cell carcinomas of the skin are excluded unless they occur at a mucocutaneous junction or external genital areas. In these instances, they are considered cancers of the organs where they are located, not skin cancers.
- Neoplasms of the lymphatic, hematopoietic, and reticuloendothelial systems are grouped by their histology (e.g., leukemia, lymphoma), not by the anatomical sites where they occur. For example, lymphomas of the breast are grouped with non-Hodgkin's lymphomas rather than with breast cancers.

Cases that are excluded from the incidence rates and all site totals presented in Sections II and III include the following:

- in situ cases (107 cases – excludes bladder)
- cases with unknown age (0 cases)
- cases with unknown gender (0 cases)

Mortality Data

Mortality data are presented as number of deaths and age-adjusted rates. The most recent U.S. rates are presented for comparison. Appendix I describe the anatomical site groupings of codes from the *International Classification of Diseases*, 9th Revision, which is used for death certificates.

Information on Alaska residents who died from cancer during 1997 was obtained from the Division of Public Health, Bureau of Vital Statistics. Deaths are attributed to cancer only if the underlying cause of death is listed as cancer. Only Alaska residents are included in mortality data.

Age-Adjusted Rates

Overall, the rates presented are age-adjusted (as indicated). Age-adjustment is a statistical process, which allow communities/states with different age structures to be compared. Age adjustment removes the influence of the differences in age distributions that occur from one population to another. Since the risk of developing cancer is strongly associated with age, a geographic area with a high proportion of elderly residents could not be accurately compared with a younger-age populated area unless rates were adjusted to a standard reference population.

A community with an older population will almost always have more cancer than one with a younger population. This will be true even if individuals of the same age in the two communities have the same risk of developing cancer. This is called “confounding” and it occurs when the measurement of the association between the exposure and the disease is mixed up with some extraneous factor (a confounding variable). Age-adjustment is an internationally approved statistical method to remove confounding caused by age.

The incidence rates presented have been adjusted by the direct method to the age distribution of the 1970 U.S. population (Appendix II). They can be compared directly with each other or with any published rates that have been adjusted to the same population and are expressed per 100,000 persons.

Age-Specific Rates

Age-specific rates are calculated by dividing the number of cases for a given age-group by the total population of that age-group. These are expressed as rate per 100,000 persons and show the variation in cancer incidence by age group for males, females and the total population as appropriate.

U.S. Rates

Comparison U.S. incidence rates are “national” rates which are age-adjusted rates calculated from a sample population based on the Surveillance, Epidemiology, and End Results (SEER) Program of the National Cancer Institute. The SEER program currently includes five state registries (Connecticut, Hawaii, Iowa, New Mexico, Utah) and six metropolitan areas (Detroit, Atlanta, San Francisco/Oakland, Seattle/Puget Sound, Los Angeles, and San Jose-Monterey area). These registries represent about 13.9% of the U.S. population. U.S. rates presented are age-adjusted and are the most current published rates.

Mortality rates for the U.S. are based on data from the National Center for Health Statistics, to which all states submit death certificate information. The U.S. mortality rates presented are also age-adjusted to the 1970 U.S. population.

Alaska Population Estimates

The computation of incidence, mortality and age-specific rates requires population determination by age, sex, and race. This information was obtained from the Alaska Department of Labor for 1997, and is the same population data used by the Alaska Bureau of Vital Statistics (Appendix III).

Race

Information on race is missing on 2.7% (n=48) of the cases reported to the Registry. African-Americans and Asian/Pacific Islanders each represented few of the newly diagnosed cancer cases for 1997, (2.6% and 3.6% respectively). Alaska Natives represented a total of 15.7% of cases reported, which is expected given the percent of the total population (16.7%). Race data are presented only where the number is more than five.

Ethnicity is Hispanic or non-Hispanic. The cancer reporting rules require that the race and ethnicity of each case be included in the data provided to the Registry. However, the ethnicity data in the Registry are not of sufficient quality to report information for Hispanics. The Registry will continue to try and improve reporting for Hispanics with the goal of including this information in subsequent reports.

Borough/Census Area

The borough/census areas described are Alaska's current designated census areas.

No rates are provided for these geographic locations, because the numbers of total cancers or specific cancer types are very small for the majority of borough/census areas. The main urban sites, where the majority of Alaska's population resides, have the greater number of cases. It is likely the Alaska Cancer Registry will not have the power to describe any geographic variation until at least three calendar years of data have been fully reported.

Small Populations and Few Events

Data based on small populations and a small number of events require careful analysis. Alaska's population is divided into many small groups (census areas) where variation is expected and may be attributed to chance. Rates that are based on fewer than five cases are considered unstable because they have a large standard error. For this reason, in Sections II and III, a "n/c" indicates a rate is not calculated for cases that are less than five.

Confidence Intervals

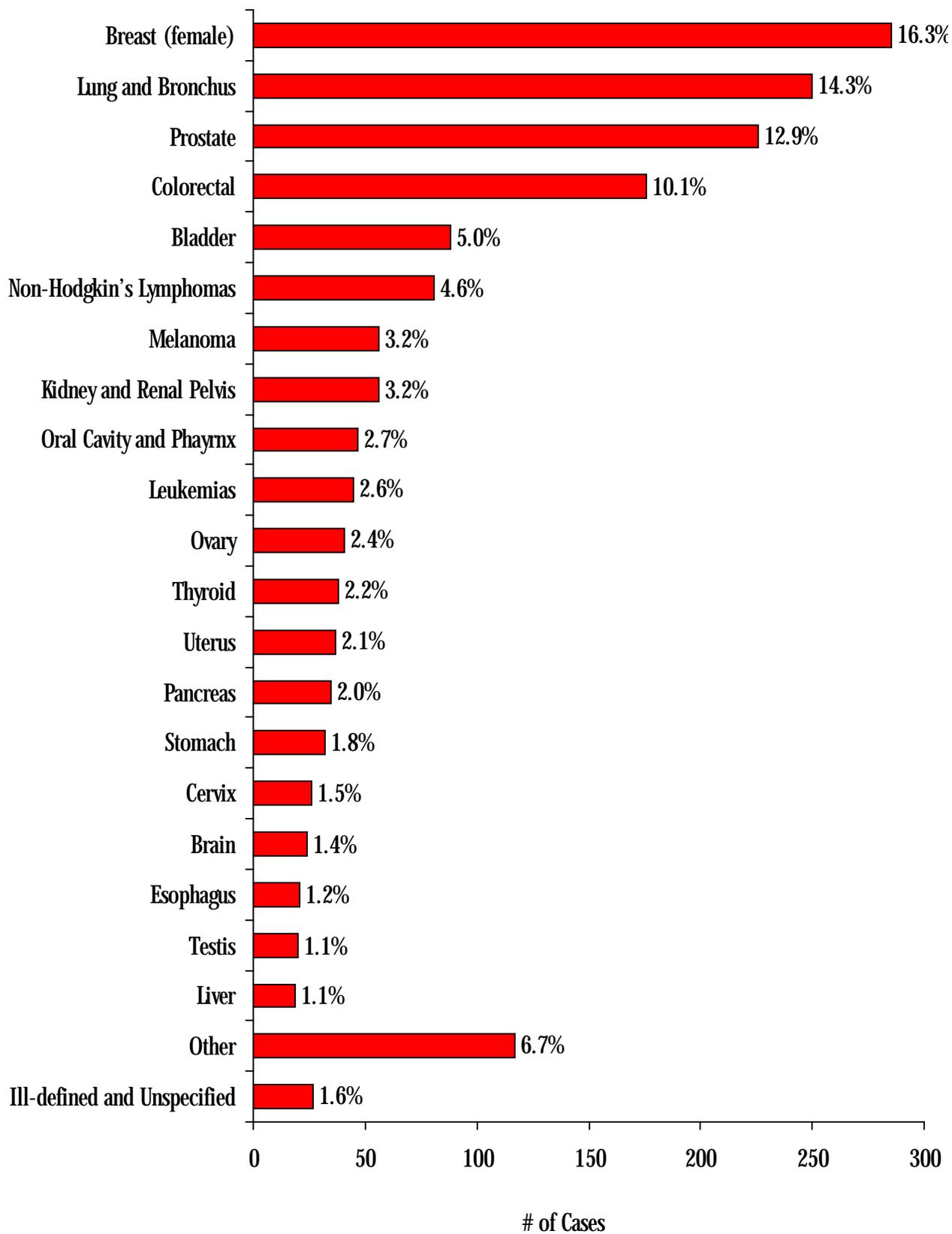
Confidence intervals for directly standardized rates were calculated for incidence and mortality based on the Fay/Feuer method.¹ A confidence interval is a range around a measurement that conveys how precise the measurement is: A 95% confidence interval around an estimate specifies a range in which we believe the true estimate lies, with 95% probability.

Random variation can change the number of particular cases of cancer diagnosed each year. For example, perhaps 2 cases of stomach cancer were diagnosed in early January 1998 instead of December 1997 because the physicians (or the patients) were on vacation at the end of 1997. The incidence of stomach cancer in 1997 appears lower than it might have been otherwise. If the two stomach cancers were two of only four for the entire year, then attributing those cases to 1998 instead of 1997 more drastically affects the estimate of stomach cancer incidence than if those cases were two of 40 stomach cancers for the year.

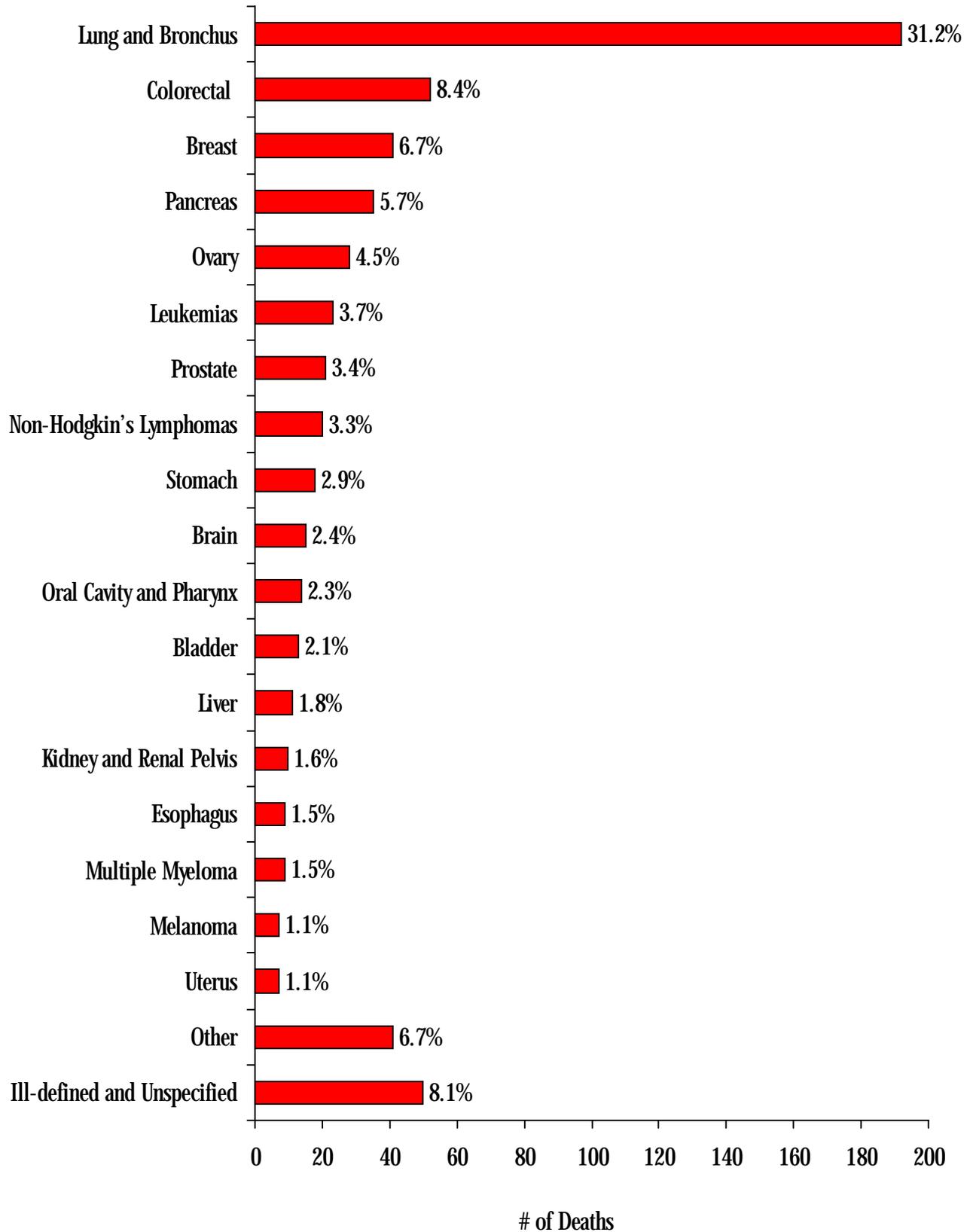
¹ Fay MP and Feuer EJ. Confidence Intervals for directly standardized rates: a method based on the gamma distribution. *Statistics in Medicine*, vol. 16, 791-801 (1997).

Section I

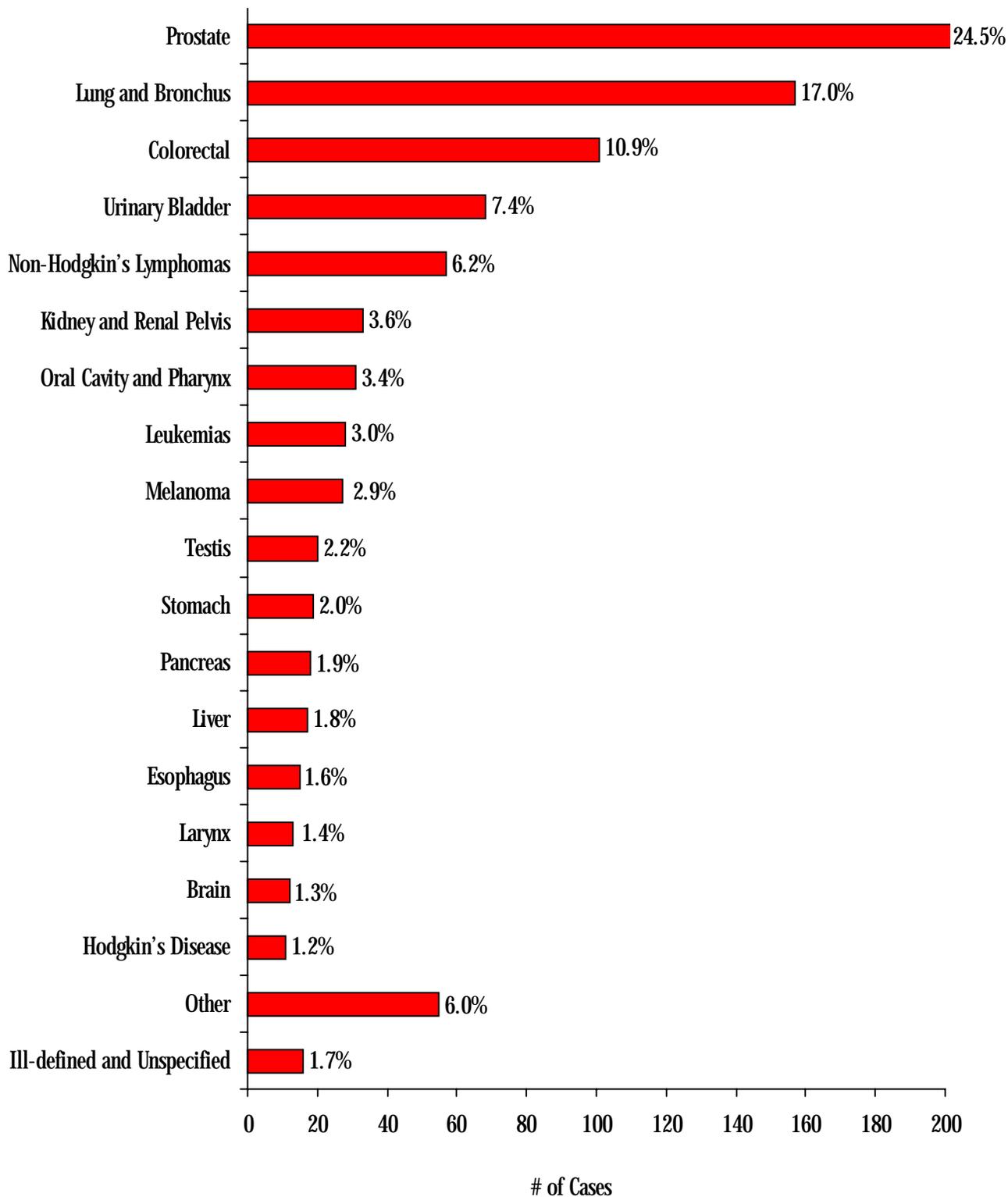
Percent of Cancer Cases by Site
1997 Invasive Cancer Cases (n=1747) - Alaska Residents



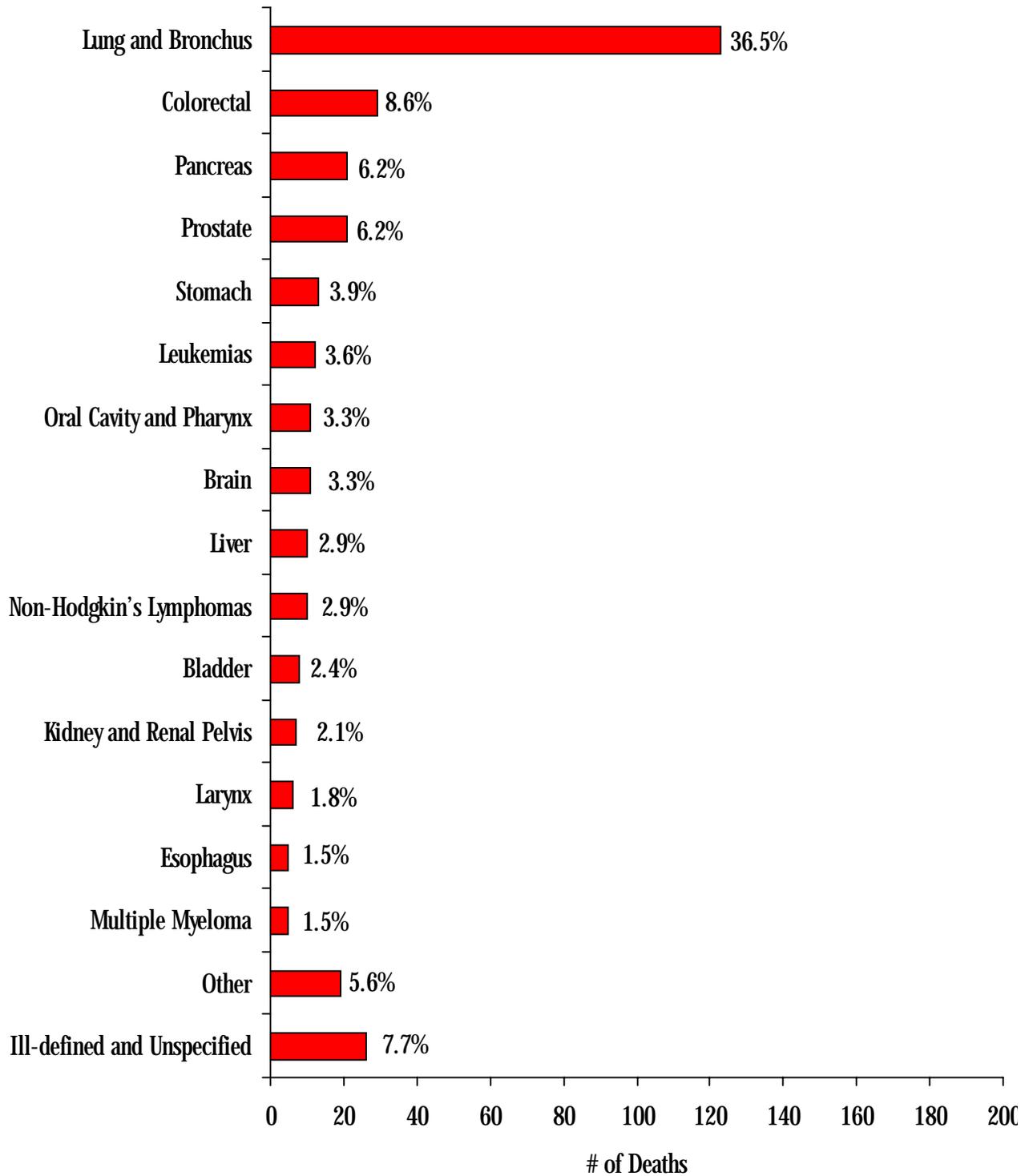
Percent of Cancer Deaths by Site 1997 Cancer Deaths (n=616) - Alaska Residents



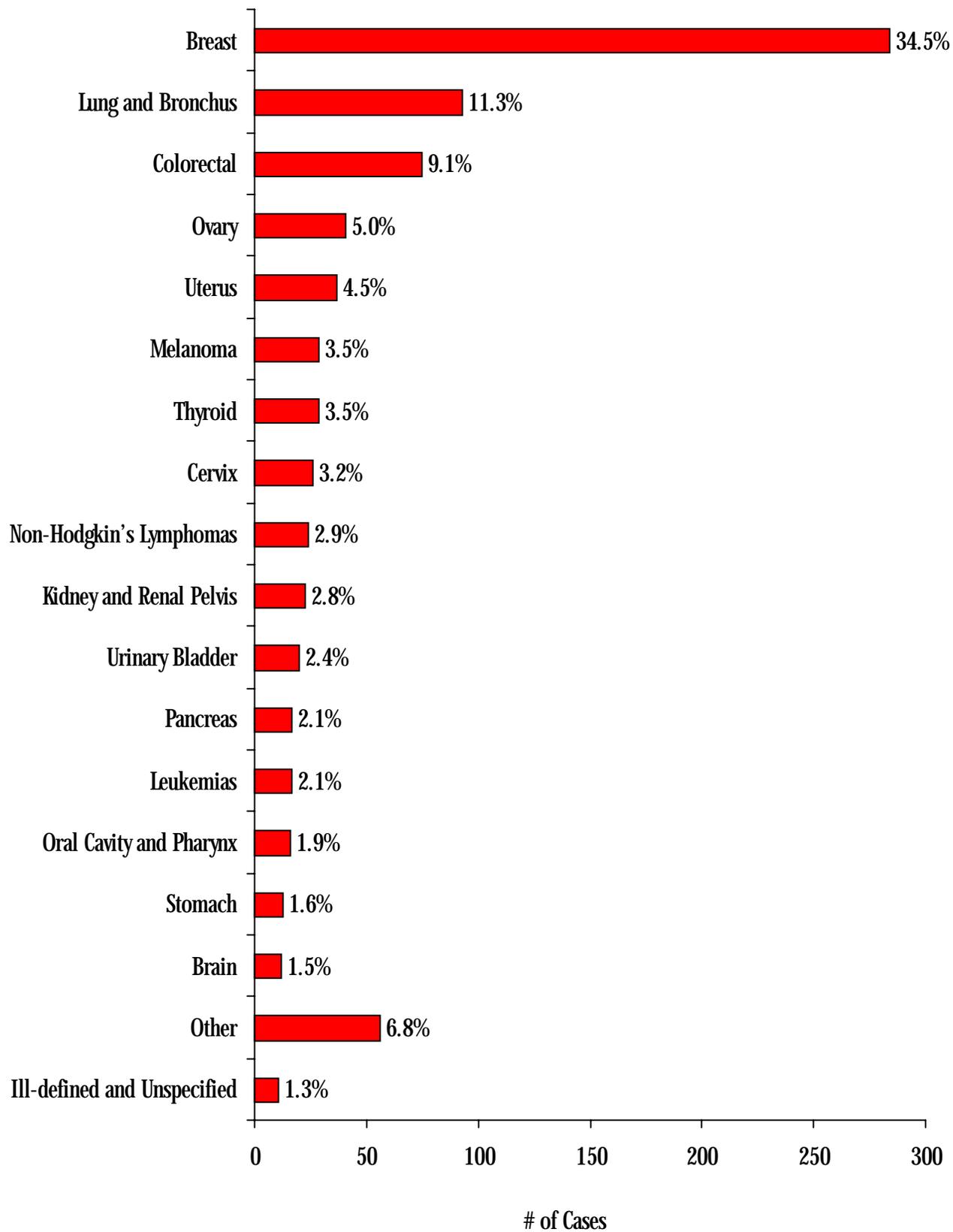
Percent of Cancer Cases by Site
1997 Male Invasive Cancer Cases (n=924) - Alaska Residents



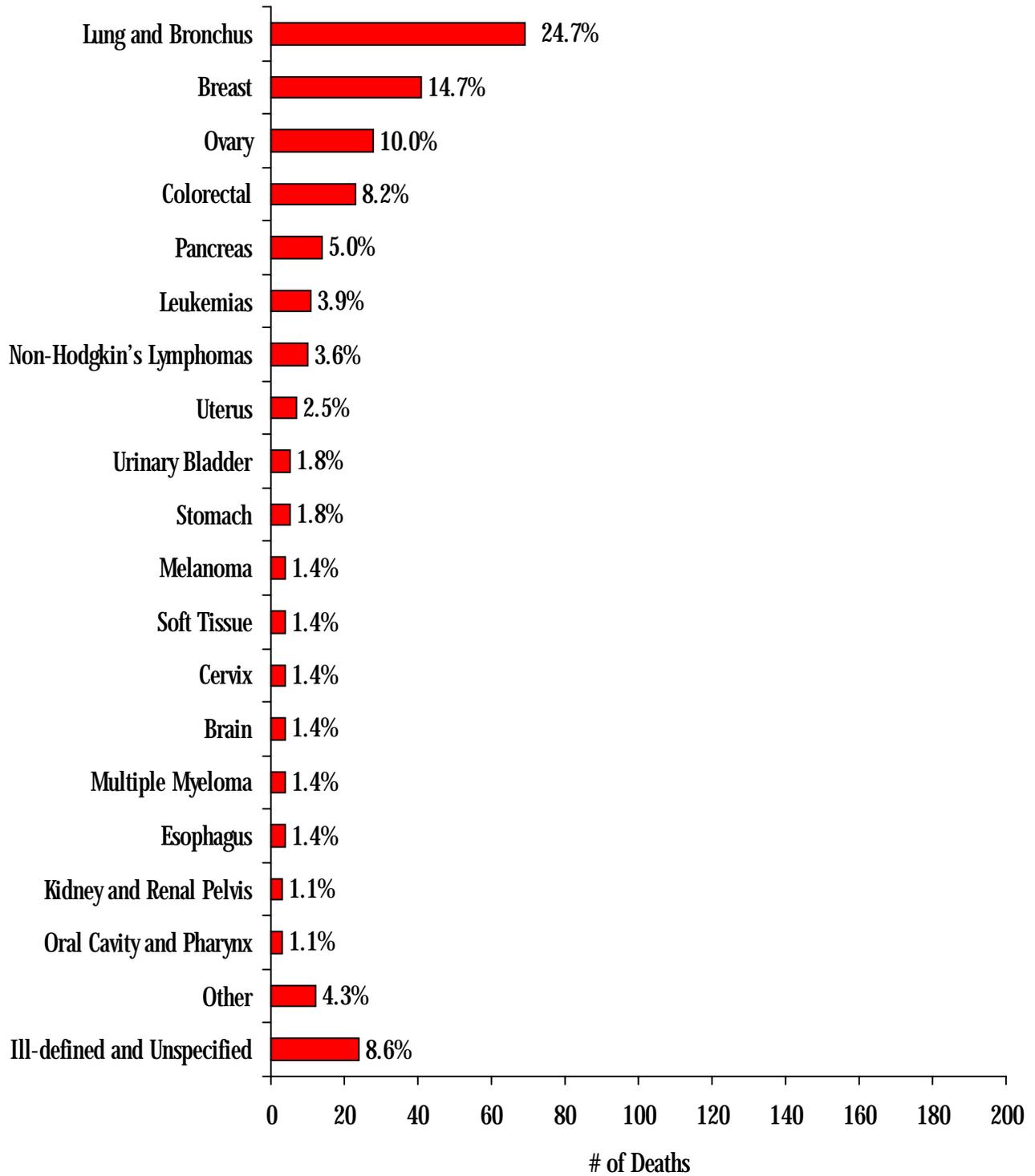
Percent of Cancer Deaths by Site 1997 Male Cancer Deaths (n=337) - Alaska Residents



Percent of Cancer Cases by Site
1997 Female Invasive Cancer Cases (n=823) - Alaska Residents



Percent of Cancer Deaths by Site 1997 Female Cancer Deaths (n=279) - Alaska Residents



Section II

All Cancers Combined

Data Definition: Incidence data were obtained from the Alaska Cancer Registry using primary site ICD-O-2 codes C00.0 - C80.9, and including all morphology codes except those indicating benign neoplasms. Mortality data were obtained from Alaska State death certificates using the underlying cause of death ICD-9 codes 140.0 - 208.9.

1997 Alaska Residents

Incidence and Mortality Summary by Sex

rates per 100,000 population age-adjusted to 1970 U.S. population

<u>Incidence</u>	<u>Male</u>	<u>Female</u>	<u>Total</u>
In situ cancer ⁺	29	78	107
Invasive cancer*	924	823	1747
Incidence rate*	464.4	362.3	407.1
1997 U.S. rate*	456.2	352.0	395.0

+Excludes in situ of bladder

*Excludes in situ cases except bladder

<u>Mortality</u>	<u>Male</u>	<u>Female</u>	<u>Total</u>
Deaths	337	279	616
Mortality rate	182.5	140.2	159.6
1997 U.S. rate	201.9	137.0	163.7

Invasive Cancer by Borough/Census Area

Aleutians East	3	Kenai Peninsula	149	Skagway-Hoonah-Angoon	12
Aleutians West	9	Ketchikan Gateway	61	Southeast Fairbanks	17
Anchorage	740	Kodiak Island	33	Valdez-Cordova	30
Bethel	30	Lake and Peninsula	8	Wade Hampton	15
Bristol Bay	3	Matanuska-Susitna	150	Wrangell-Petersburg	20
Denali	7	Nome	28	Yakutat	6
Dillingham	12	North Slope	16	Yukon-Koyukuk	15
Fairbanks North Star	217	Northwest Arctic	12	Unknown	1
Haines	12	Prince of Wales-Outer Ketchikan	23		
Juneau	95	Sitka	23		

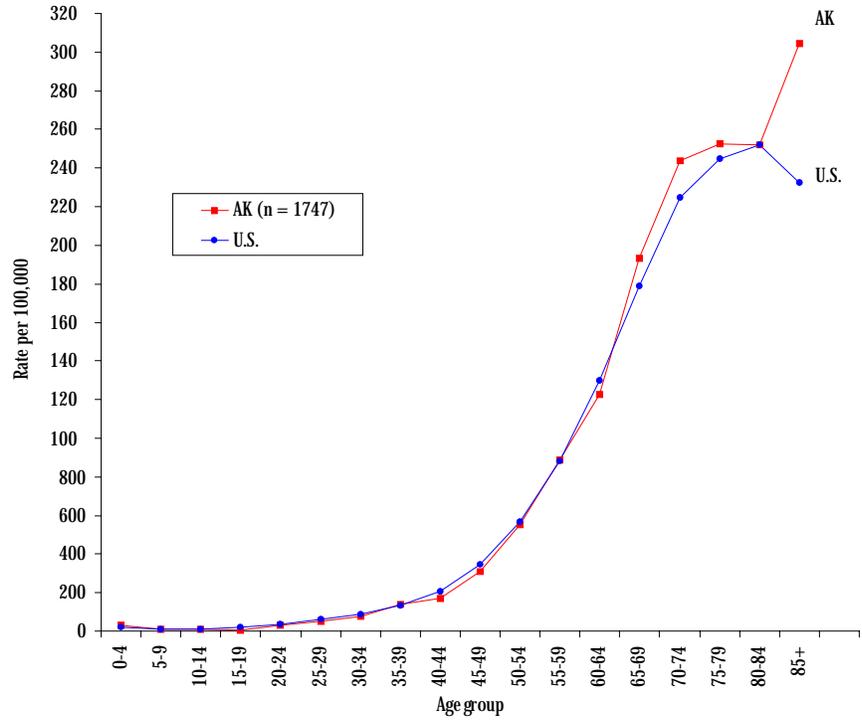
Stage at Diagnosis**

Alaska (n = 1747)

**Stage at Diagnosis is unique for each primary site and, therefore, cannot be applied to "All Cancers Combined".

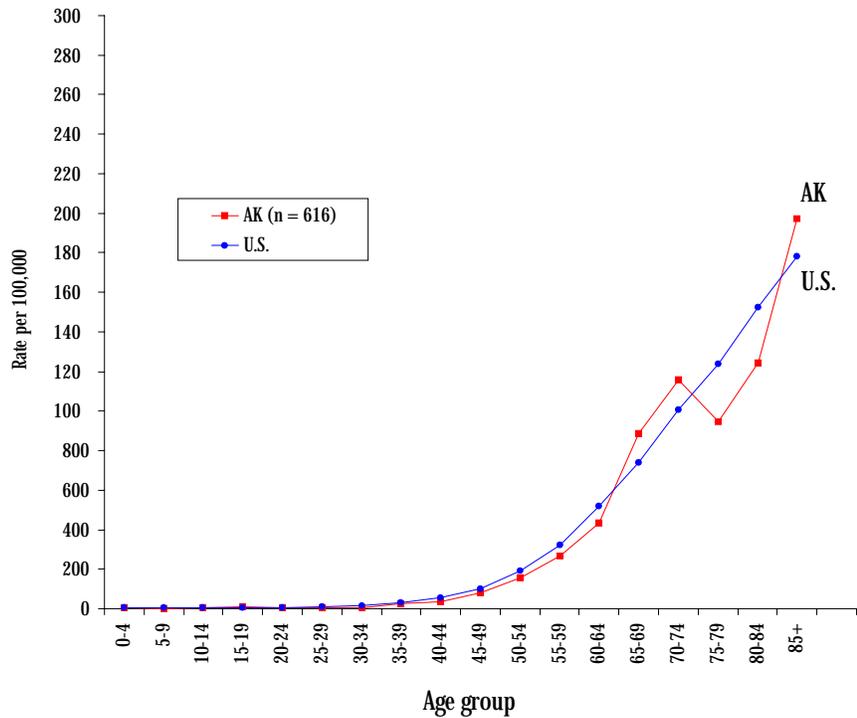
All Cancers Combined

Age-Specific Incidence Rates Alaska (1997) and U.S. (1993-97)



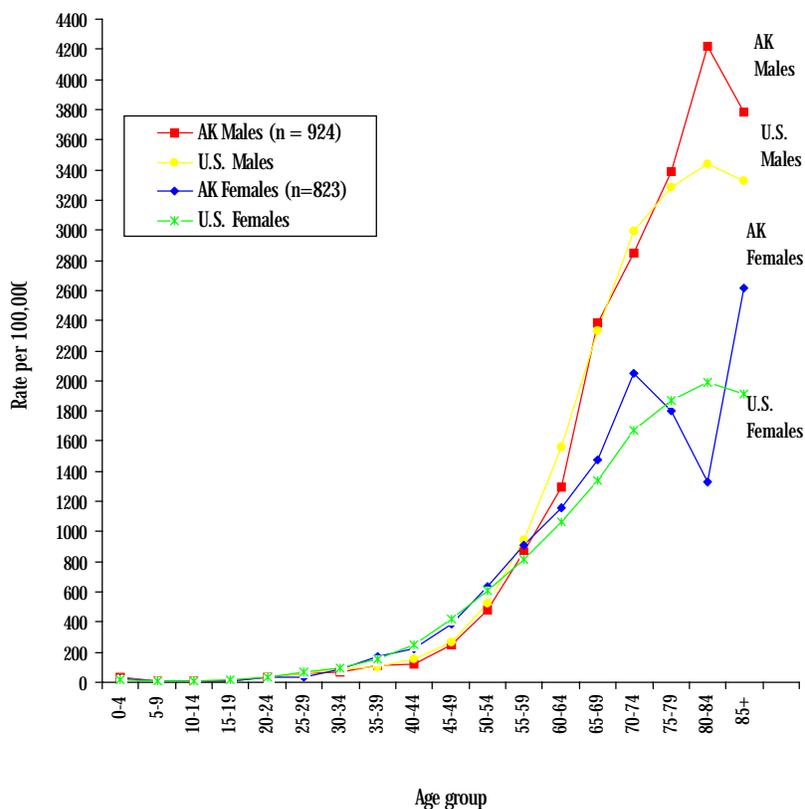
All Cancers Combined

Age-Specific Mortality Rates Alaska (1997) and U.S. (1993-97)



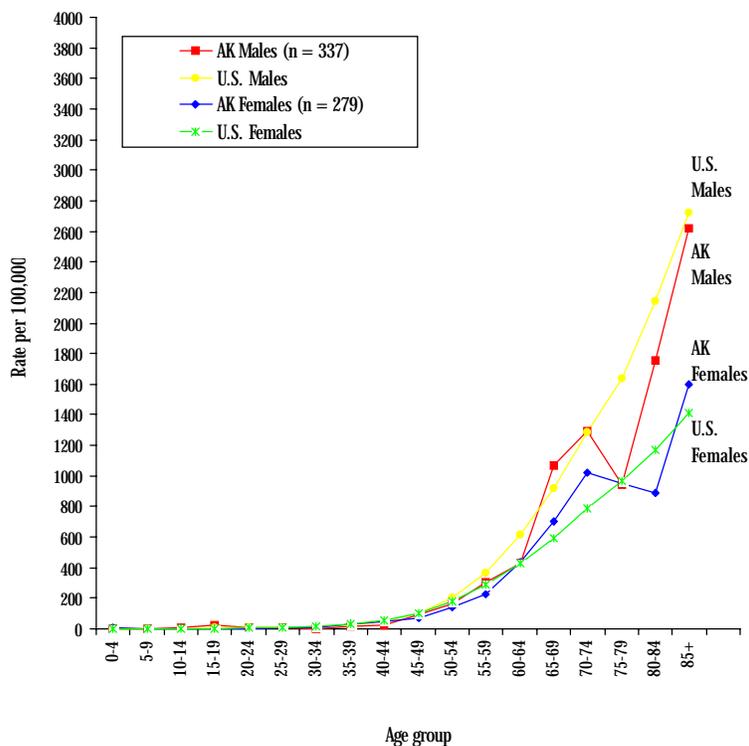
All Cancers Combined

Age-Specific Incidence Rates by Sex Alaska (1997) and U.S. (1993-97)



All Cancers Combined

Age-Specific Mortality Rates by Sex Alaska (1997) and U.S. (1993-97)



Brain and Other Nervous System

Data Definition: Incidence data were obtained from the Alaska Cancer Registry using primary site ICD-O-2 codes C70.0 - C70.9, C71.0 - C71.9 and C72.0 - C72.9, excluding morphology codes 9590-9989. Mortality data were obtained from Alaska State death certificates using the underlying cause of death ICD-9 codes 191.0 - 191.9, 192.0 - 192.3 and 192.8 - 192.9.

1997 Alaska Residents

Incidence and Mortality Summary by Sex

rates per 100,000 population age-adjusted to 1970 U.S. population

<u>Incidence</u>	<u>Male</u>	<u>Female</u>	<u>Total</u>
In situ cancer	0	0	0
Invasive cancer	12	13	25
Incidence rate	4.1	5.3	4.6
1997 U.S. rate*	7.0	4.9	5.9

*Excludes in situ cases

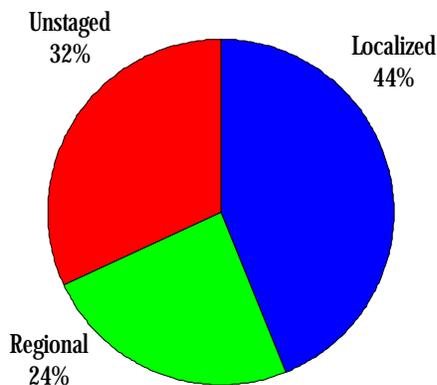
<u>Mortality</u>	<u>Male</u>	<u>Female</u>	<u>Total</u>
Deaths	11	4	15
Mortality rate	4.7	n/c**	3.2
1997 U.S. rate	4.9	3.4	4.1

**n/c=rate not calculated if n<5

Brain Cancer by Borough/Census Area

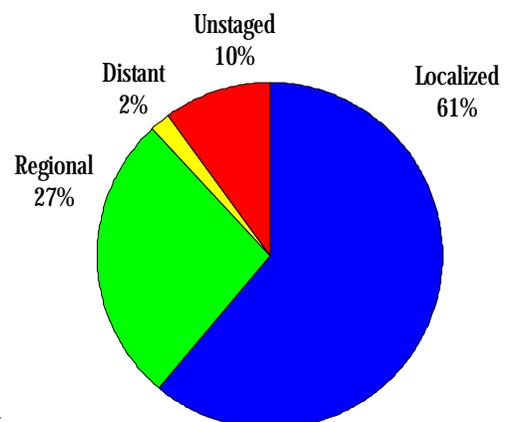
Aleutians East	0	Kenai Peninsula	5	Skagway-Hoonah-Angoon	1
Aleutians West	0	Ketchikan Gateway	1	Southeast Fairbanks	0
Anchorage	13	Kodiak Island	0	Valdez-Cordova	0
Bethel	0	Lake and Peninsula	0	Wade Hampton	0
Bristol Bay	1	Matanuska-Susitna	0	Wrangell-Petersburg	0
Denali	0	Nome	0	Yakutat	0
Dillingham	0	North Slope	0	Yukon-Koyukuk	0
Fairbanks North Star	1	Northwest Arctic	0	Unknown	0
Haines	0	Prince of Wales-Outer Ketchikan	0		
Juneau	3	Sitka	0		

Alaska (n=25)



Stage at Diagnosis

U.S.



5 year Survival (U.S., 1997)
All Stages 30.8%

Breast (female)

Data Definition: Incidence data were obtained from the Alaska Cancer Registry using primary site ICD-O-2 codes C50.0 - C50.9, and excluding morphology codes 9590-9989. Mortality data were obtained from Alaska State death certificates using the underlying cause of death ICD-9 codes 174.0 - 174.9.

1997 Alaska Residents Incidence and Mortality Summary by Sex rates per 100,000 population age-adjusted to 1970 U.S. population

<u>Incidence</u>	<u>Female</u>
In situ cancer	63
Invasive cancer	284
Incidence rate*	119.4
1997 U.S. rate*	115.4

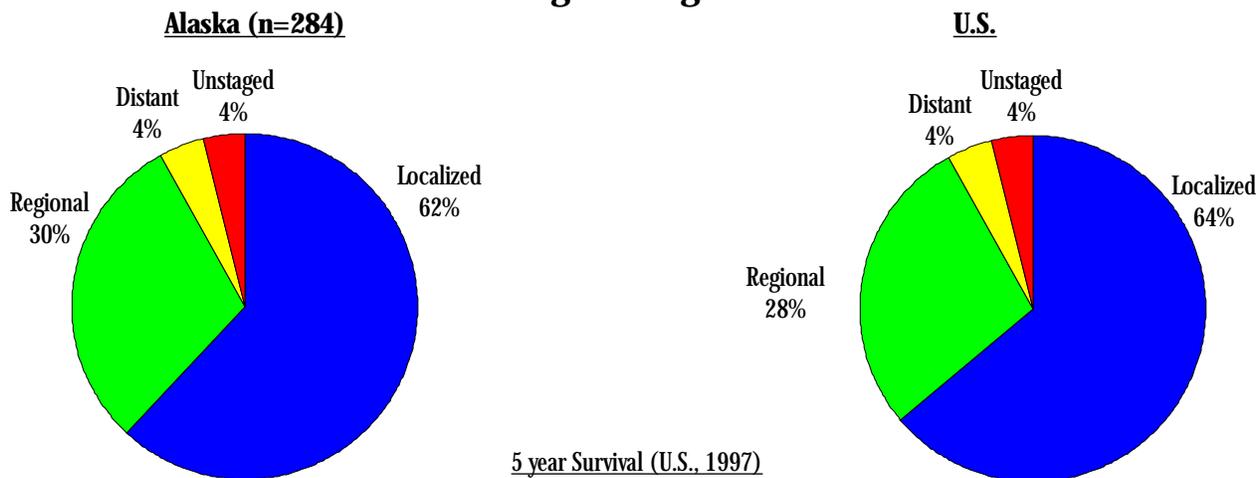
*Excludes in situ cases

<u>Mortality</u>	<u>Female</u>
Deaths	41
Mortality rate	19.1
1997 U.S. rate	23.3

Invasive Breast Cancer by Borough/Census Area

Aleutians East	0	Kenai Peninsula	27	Skagway-Hoonah-Angoon	1
Aleutians West	2	Ketchikan Gateway	3	Southeast Fairbanks	2
Anchorage	138	Kodiak Island	10	Valdez-Cordova	3
Bethel	4	Lake and Peninsula	0	Wade Hampton	0
Bristol Bay	0	Matanuska-Susitna	24	Wrangell-Petersburg	3
Denali	2	Nome	4	Yakutat	0
Dillingham	1	North Slope	1	Yukon-Koyukuk	2
Fairbanks North Star	31	Northwest Arctic	3	Unknown	0
Haines	3	Prince of Wales-Outer Ketchikan	2		
Juneau	17	Sitka	1		

Stage at Diagnosis



5 year Survival (U.S., 1997)
All Stages 85.0% Localized 96.5%

Cervix

Data Definition: Incidence data were obtained from the Alaska Cancer Registry using primary site ICD-O-2 codes C53.0 - C53.9, and excluding morphology codes 9590-9989. Mortality data were obtained from Alaska State death certificates using the underlying cause of death ICD-9 codes 180.0 - 180.9.

1997 Alaska Residents

Incidence and Mortality Summary by Sex

rates per 100,000 population age-adjusted to 1970 U.S. population

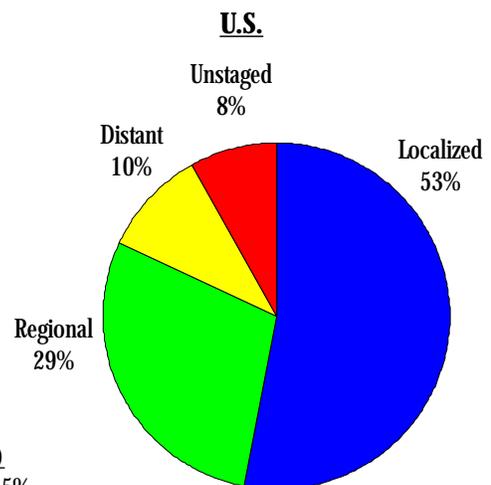
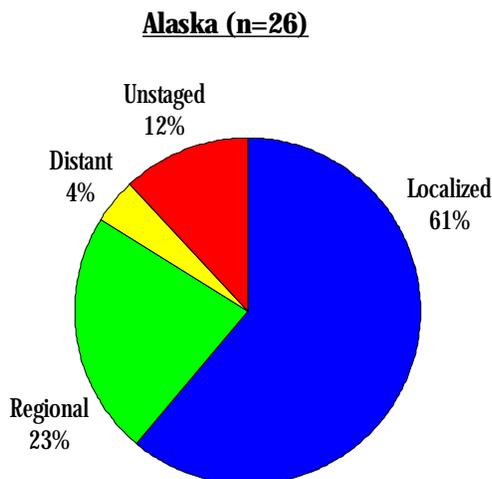
<u>Incidence</u>	<u>Female</u>
Invasive cancer	26
Incidence rate	8.8
1997 U.S. rate*	7.5
*Excludes in situ cases	

<u>Mortality</u>	<u>Female</u>
Deaths	4
Mortality rate	n/c**
1997 U.S. rate	2.6
**n/c=rate not calculated if n<5	

Cervical Cancer by Borough/Census Area

Aleutians East	0	Kenai Peninsula	3	Skagway-Hoonah-Angoon	0
Aleutians West	0	Ketchikan Gateway	1	Southeast Fairbanks	0
Anchorage	8	Kodiak Island	0	Valdez-Cordova	0
Bethel	0	Lake and Peninsula	0	Wade Hampton	0
Bristol Bay	0	Matanuska-Susitna	5	Wrangell-Petersburg	0
Denali	0	Nome	0	Yakutat	0
Dillingham	0	North Slope	1	Yukon-Koyukuk	0
Fairbanks North Star	5	Northwest Arctic	0	Unknown	0
Haines	1	Prince of Wales-Outer Ketchikan	0		
Juneau	1	Sitka	1		

Stage at Diagnosis



5 year Survival (U.S., 1997)
All Stages 69.9% Localized 91.5%

Colorectal

Data Definition: Incidence data were obtained from the Alaska Cancer Registry using primary site ICD-O-2 codes C18.0 - C18.9, C19.9, C20.9 and C26.0, and excluding morphology codes 9590-9989. Mortality data were obtained from Alaska State death certificates using the underlying cause of death ICD-9 codes 153.0 - 153.9, 154.0 - 154.1 and 159.0.

1997 Alaska Residents

Incidence and Mortality Summary by Sex

rates per 100,000 population age-adjusted to 1970 U.S. population

<u>Incidence</u>	<u>Male</u>	<u>Female</u>	<u>Total</u>
In situ cancer	4	1	5
Invasive cancer	101	75	176
Incidence rate*	51.3	35.6	43.3
1997 U.S. rate*	52.6	37.0	43.9

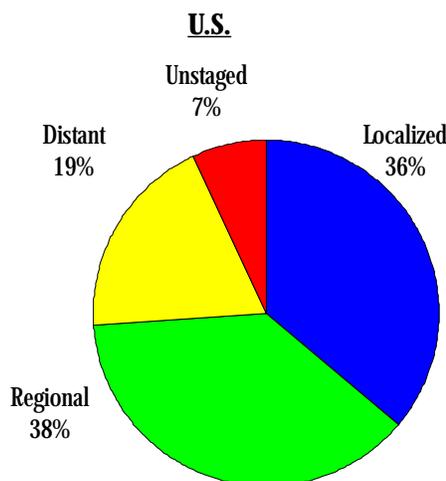
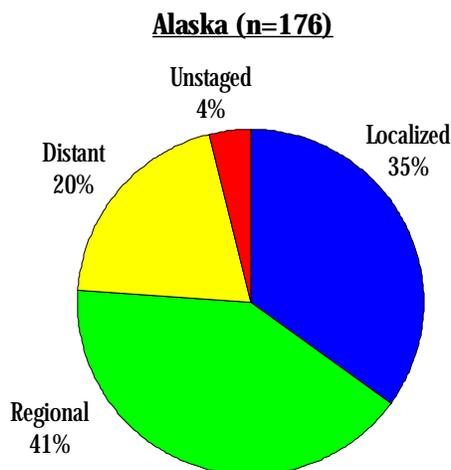
*Excludes in situ cases

<u>Mortality</u>	<u>Male</u>	<u>Female</u>	<u>Total</u>
Deaths	29	23	52
Mortality rate	15.6	11.3	13.2
1997 U.S. rate	20.0	13.7	16.4

Invasive Colorectal Cancer by Borough/Census Area

Aleutians East	0	Kenai Peninsula	14	Skagway-Hoonah-Angoon	1
Aleutians West	1	Ketchikan Gateway	4	Southeast Fairbanks	1
Anchorage	56	Kodiak Island	5	Valdez-Cordova	6
Bethel	8	Lake and Peninsula	1	Wade Hampton	1
Bristol Bay	0	Matanuska-Susitna	13	Wrangell-Petersburg	2
Denali	0	Nome	8	Yakutat	0
Dillingham	3	North Slope	5	Yukon-Koyukuk	5
Fairbanks North Star	22	Northwest Arctic	3	Unknown	0
Haines	2	Prince of Wales-Outer Ketchikan	5		
Juneau	7	Sitka	3		

Stage at Diagnosis



5 year Survival (U.S., 1997)
All Stages 61.3% Localized 90.0%

Kidney and Renal Pelvis

Data Definition: Incidence data were obtained from the Alaska Cancer Registry using primary site ICD-O-2 codes C64.9 and C65.9, and excluding morphology codes 9590-9989. Mortality data were obtained from Alaska State death certificates using the underlying cause of death ICD-9 codes 189.0 and 189.1.

1997 Alaska Residents

Incidence and Mortality Summary by Sex

rates per 100,000 population age-adjusted to 1970 U.S. population

<u>Incidence</u>	<u>Male</u>	<u>Female</u>	<u>Total</u>
In situ cancer	0	0	0
Invasive cancer	33	23	56
Incidence rate	14.6	10.7	12.8
1997 U.S. rate*	12.4	6.4	9.1

*Excludes in situ cases

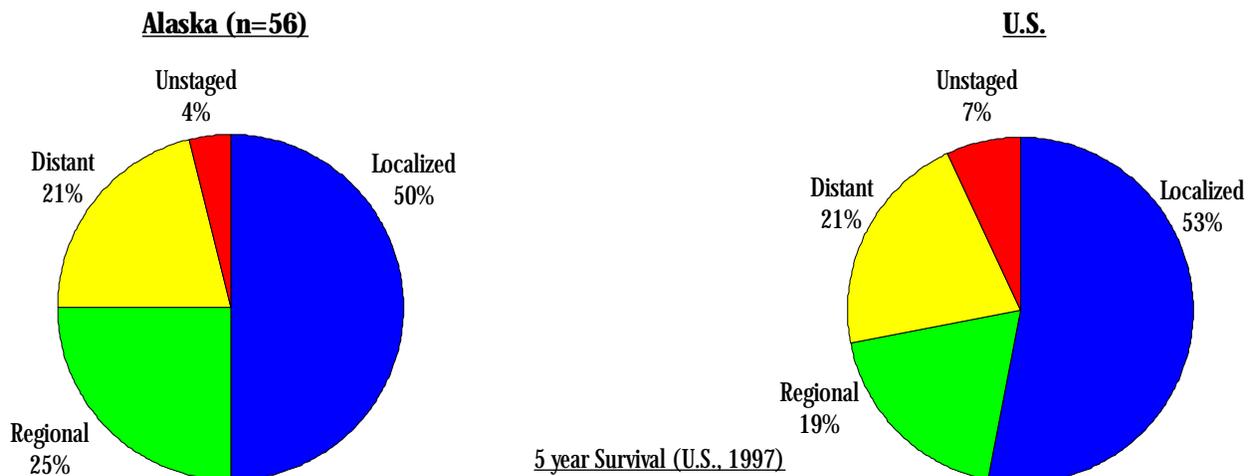
<u>Mortality</u>	<u>Male</u>	<u>Female</u>	<u>Total</u>
Deaths	7	3	10
Mortality rate	3.6	n/c**	2.4
1997 U.S. rate	5.0	2.3	3.5

**n/c=rate not included if n<5

Kidney and Renal Pelvis Cancer by Borough/Census Area

Aleutians East	0	Kenai Peninsula	2	Skagway-Hoonah-Angoon	0
Aleutians West	0	Ketchikan Gateway	3	Southeast Fairbanks	0
Anchorage	24	Kodiak Island	0	Valdez-Cordova	0
Bethel	3	Lake and Peninsula	1	Wade Hampton	1
Bristol Bay	0	Matanuska-Susitna	7	Wrangell-Petersburg	1
Denali	0	Nome	1	Yakutat	0
Dillingham	0	North Slope	1	Yukon-Koyukuk	0
Fairbanks North Star	7	Northwest Arctic	0	Unknown	0
Haines	0	Prince of Wales-Outer Ketchikan	0		
Juneau	3	Sitka	2		

Stage at Diagnosis



5 year Survival (U.S., 1997)
All Stages 60.8% Localized 88.4%

Leukemias

Data Definition: Incidence data were obtained from the Alaska Cancer Registry using primary site ICD-O-2 code C42.1 with morphology codes 9800 - 9941. Mortality data were obtained from Alaska State death certificates using the underlying cause of death ICD-9 codes 204.0 - 208.9.

1997 Alaska Residents

Incidence and Mortality Summary by Sex

rates per 100,000 population age-adjusted to 1970 U.S. population

<u>Incidence</u>	<u>Male</u>	<u>Female</u>	<u>Total</u>
In situ cancer*	n/a	n/a	n/a
Invasive cancer	28	17	45
Incidence rate	12.3	7.0	9.7
1997 U.S. rate	12.5	7.4	9.6

*In situ cancers are not applicable (n/a)

<u>Mortality</u>	<u>Male</u>	<u>Female</u>	<u>Total</u>
Deaths	12	11	23
Mortality rate	4.8	5.5	5.4
1997 U.S. rate	8.1	4.7	6.2

Leukemias by Borough/Census Area

Aleutians East	0	Kenai Peninsula	5	Skagway-Hoonah-Angoon	0
Aleutians West	0	Ketchikan Gateway	3	Southeast Fairbanks	2
Anchorage	16	Kodiak Island	1	Valdez-Cordova	1
Bethel	1	Lake and Peninsula	0	Wade Hampton	0
Bristol Bay	0	Matanuska-Susitna	4	Wrangell-Petersburg	0
Denali	0	Nome	0	Yakutat	1
Dillingham	0	North Slope	0	Yukon-Koyukuk	1
Fairbanks North Star	6	Northwest Arctic	0	Unknown	0
Haines	0	Prince of Wales-Outer Ketchikan	0		
Juneau	4	Sitka	0		

Stage at Diagnosis**

**All leukemias are staged as distant/systemic disease

5 year Survival (U.S., 1997)

All leukemias 43.9%

Lung and Bronchus

Data Definition: Incidence data were obtained from the Alaska Cancer Registry using primary site ICD-O-2 codes C34.0 - C34.9, excluding morphology codes 9590-9989. Mortality data were obtained from Alaska State death certificates using the underlying cause of death ICD-9 codes 162.2 - 162.9.

1997 Alaska Residents

Incidence and Mortality Summary by Sex

rates per 100,000 population age-adjusted to 1970 U.S. population

<u>Incidence</u>	<u>Male</u>	<u>Female</u>	<u>Total</u>
In situ cancer	0	0	0
Invasive cancer	157	93	250
Incidence rate	82.2	47.1	64.1
1997 U.S. rate*	69.1	43.1	54.4

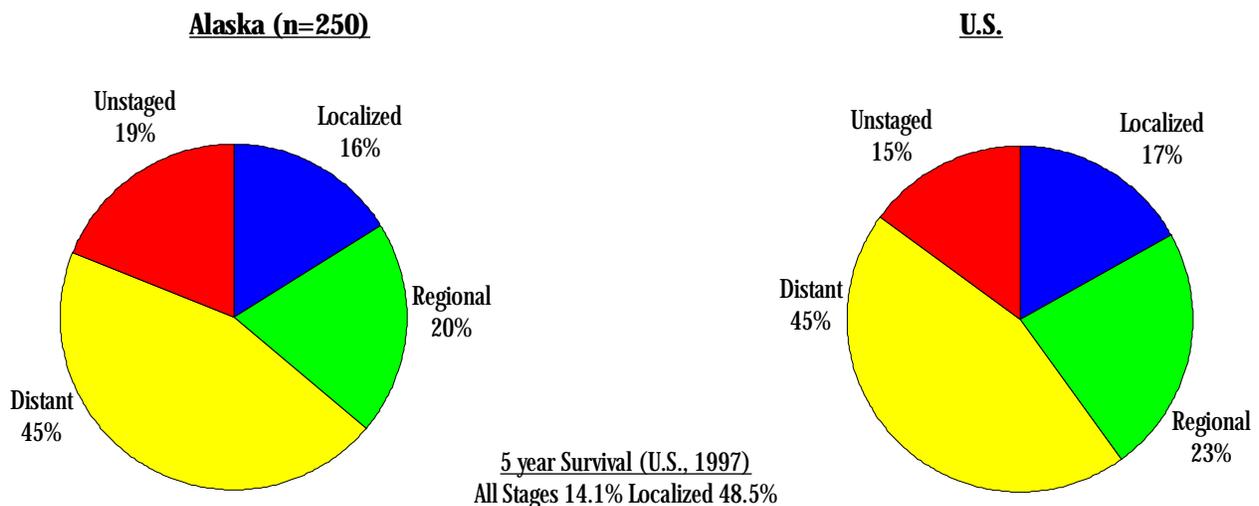
*Excludes in situ cases

<u>Mortality</u>	<u>Male</u>	<u>Female</u>	<u>Total</u>
Deaths	123	69	192
Mortality rate	64.2	36.2	50.1
1997 U.S. rate	66.6	34.5	48.3

Lung Cancer by Borough/Census Area

Aleutians East	1	Kenai Peninsula	25	Skagway-Hoonah-Angoon	3
Aleutians West	2	Ketchikan Gateway	9	Southeast Fairbanks	4
Anchorage	97	Kodiak Island	4	Valdez-Cordova	5
Bethel	6	Lake and Peninsula	0	Wade Hampton	5
Bristol Bay	1	Matanuska-Susitna	21	Wrangell-Petersburg	4
Denali	1	Nome	4	Yakutat	1
Dillingham	1	North Slope	4	Yukon-Koyukuk	0
Fairbanks North Star	33	Northwest Arctic	1	Unknown	0
Haines	2	Prince of Wales-Outer Ketchikan	1		
Juneau	12	Sitka	3		

Stage at Diagnosis



Melanomas of the Skin

Data Definition: Incidence data were obtained from the Alaska Cancer Registry using primary site ICD-O-2 codes C44.0 - C44.9, including only morphology codes 8720-8790. Mortality data were obtained from Alaska State death certificates using the underlying cause of death ICD-9 codes 172.2 - 172.9.

1997 Alaska Residents

Incidence and Mortality Summary by Sex

rates per 100,000 population age-adjusted to 1970 U.S. population

<u>Incidence</u>	<u>Male</u>	<u>Female</u>	<u>Total</u>
In situ cancer	16	4	20
Invasive cancer	27	29	56
Incidence rate*	10.2	10.0	9.8
1997 U.S. rate*	17.2	12.0	14.3

*Excludes in situ cases

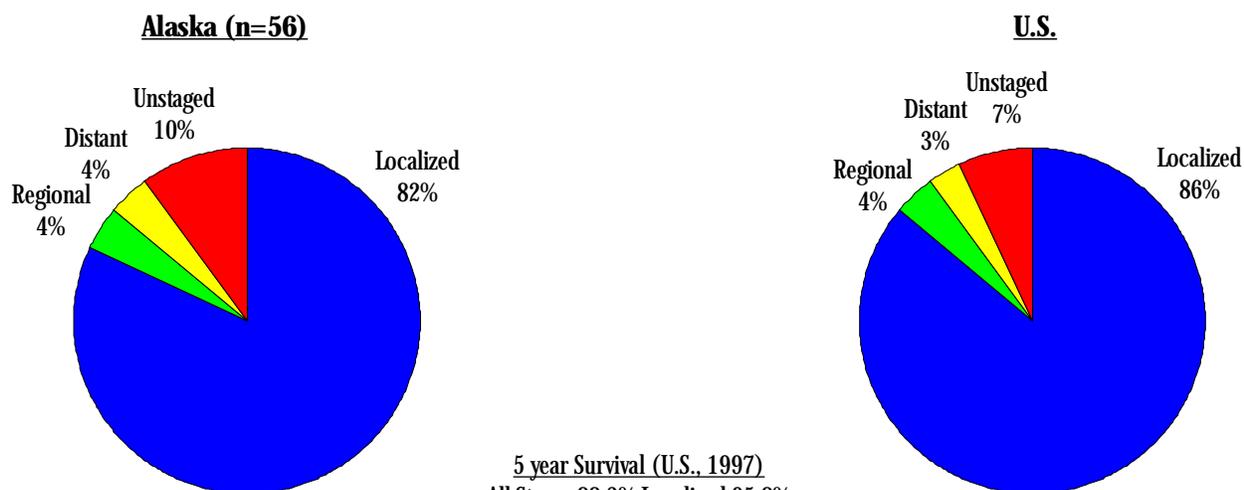
<u>Mortality</u>	<u>Male</u>	<u>Female</u>	<u>Total</u>
Deaths	3	4	7
Mortality rate	n/c**	n/c**	1.2
1997 U.S. rate	3.2	1.5	2.2

**n/c = rate not calculated if n<5

Invasive Melanomas of the Skin by Borough/Census Area

Aleutians East	0	Kenai Peninsula	3	Skagway-Hoonah-Angoon	0
Aleutians West	0	Ketchikan Gateway	4	Southeast Fairbanks	0
Anchorage	30	Kodiak Island	1	Valdez-Cordova	0
Bethel	0	Lake and Peninsula	0	Wade Hampton	0
Bristol Bay	0	Matanuska-Susitna	3	Wrangell-Petersburg	0
Denali	0	Nome	0	Yakutat	0
Dillingham	0	North Slope	0	Yukon-Koyukuk	1
Fairbanks North Star	9	Northwest Arctic	0	Unknown	0
Haines	0	Prince of Wales-Outer Ketchikan	2		
Juneau	2	Sitka	1		

Stage at Diagnosis



Non-Hodgkin's Lymphomas

Data Definition: Incidence data were obtained from the Alaska Cancer Registry using all primary sites with morphology codes 9590 - 9595 and 9670 - 9715. Mortality data were obtained from Alaska State death certificates using the underlying cause of death ICD-9 codes 200.0 - 200.8, 202.0 - 202.2 and 202.8 - 202.9.

1997 Alaska Residents

Incidence and Mortality Summary by Sex

rates per 100,000 population age-adjusted to 1970 U.S. population

<u>Incidence</u>	<u>Male</u>	<u>Female</u>	<u>Total</u>
In situ cancer*	n/a	n/a	n/a
Invasive cancer	57	24	81
Incidence rate	23.3	10.8	17.1
1997 U.S. rate	19.2	13.0	15.8

*In situ cancers are not applicable (n/a)

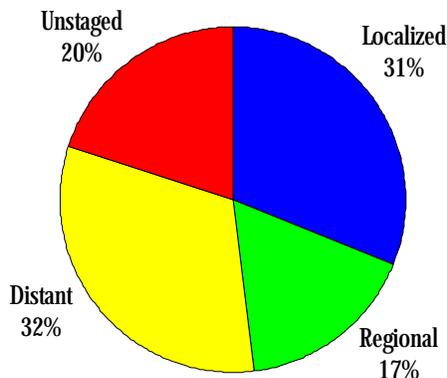
<u>Mortality</u>	<u>Male</u>	<u>Female</u>	<u>Total</u>
Deaths	10	10	20
Mortality rate	4.7	4.8	4.9
1997 U.S. rate	8.7	5.7	7.0

Non-Hodgkin's Lymphomas by Borough/Census Area

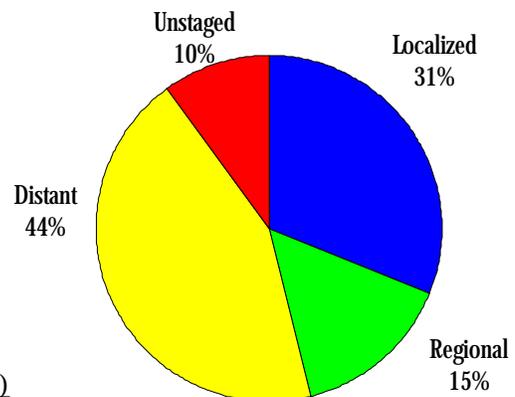
Aleutians East	0	Kenai Peninsula	5	Skagway-Hoonah-Angoon	2
Aleutians West	1	Ketchikan Gateway	0	Southeast Fairbanks	1
Anchorage	37	Kodiak Island	0	Valdez-Cordova	1
Bethel	1	Lake and Peninsula	0	Wade Hampton	0
Bristol Bay	0	Matanuska-Susitna	12	Wrangell-Petersburg	1
Denali	1	Nome	2	Yakutat	0
Dillingham	1	North Slope	0	Yukon-Koyukuk	1
Fairbanks North Star	5	Northwest Arctic	1	Unknown	0
Haines	1	Prince of Wales-Outer Ketchikan	3		
Juneau	5	Sitka	0		

Stage at Diagnosis

Alaska (n=81)



U.S.



5 year Survival (U.S., 1997)
All Stages 51.6%

Oral Cavity and Pharynx

Data Definition: Incidence data were obtained from the Alaska Cancer Registry using primary site ICD-O-2 codes C00.0 - C14.8, and excluding morphology codes 9590-9989. Mortality data were obtained from Alaska State death certificates using the underlying cause of death ICD-9 codes 140.0 - 149.9

1997 Alaska Residents

Incidence and Mortality Summary by Sex

rates per 100,000 population age-adjusted to 1970 U.S. population

<u>Incidence</u>	<u>Male</u>	<u>Female</u>	<u>Total</u>
In situ cancer	2	0	2
Invasive cancer	31	16	47
Incidence rate*	12.6	7.2	10.0
1997 U.S. rate*	14.5	5.6	9.7

*Excludes in situ cases

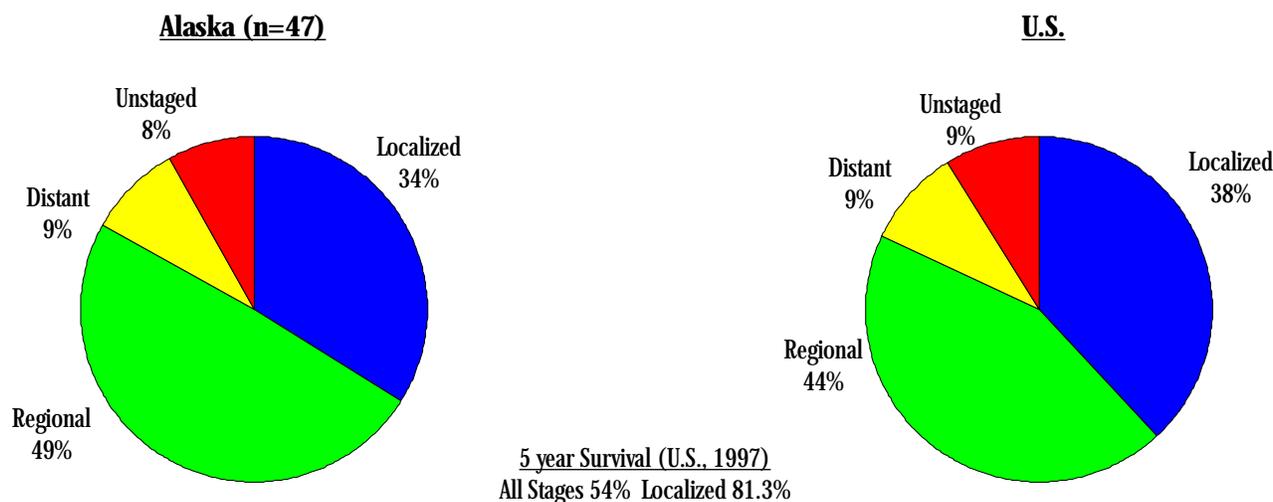
<u>Mortality</u>	<u>Male</u>	<u>Female</u>	<u>Total</u>
Deaths	11	3	14
Mortality rate	5.1	n/c**	3.6
1997 U.S. rate	3.8	1.4	2.5

**n/c = rate not calculated if n<5

Invasive Cancer of the Oral Cavity and Pharynx by Borough/Census Area

Aleutians East	0	Kenai Peninsula	2	Skagway-Hoonah-Angoon	0
Aleutians West	1	Ketchikan Gateway	3	Southeast Fairbanks	0
Anchorage	18	Kodiak Island	0	Valdez-Cordova	1
Bethel	0	Lake and Peninsula	1	Wade Hampton	0
Bristol Bay	0	Matanuska-Susitna	5	Wrangell-Petersburg	1
Denali	1	Nome	1	Yakutat	0
Dillingham	1	North Slope	1	Yukon-Koyukuk	1
Fairbanks North Star	6	Northwest Arctic	0	Unknown	0
Haines	0	Prince of Wales-Outer Ketchikan	0		
Juneau	2	Sitka	2		

Stage at Diagnosis



Ovary

Data Definition: Incidence data were obtained from the Alaska Cancer Registry using primary site ICD-O-2 code C56.9, excluding morphology codes 9590-9989. Mortality data were obtained from Alaska State death certificates using the underlying cause of death ICD-9 code 183.0

1997 Alaska Residents Incidence and Mortality Summary by Sex rates per 100,000 population age-adjusted to 1970 U.S. population

<u>Incidence</u>	<u>Female</u>
In situ cancer	0
Invasive cancer	41
Incidence rate	16.9
1997 U.S. rate*	14.3

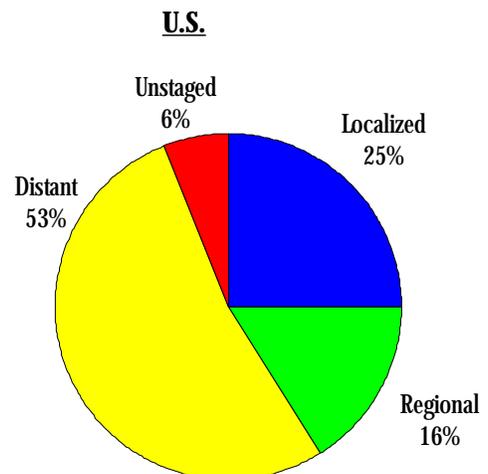
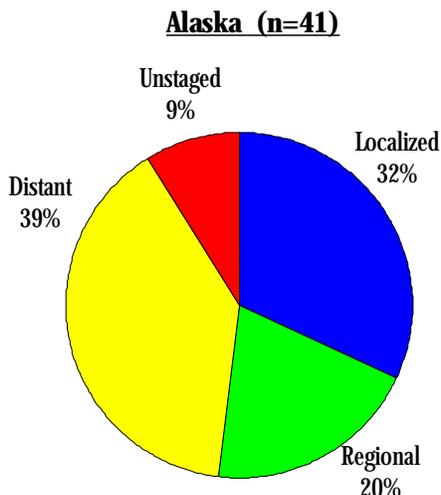
*Excludes in situ cases

<u>Mortality</u>	<u>Female</u>
Deaths	28
Mortality rate	14.2
1997 U.S. rate	7.4

Ovarian Cancer by Borough/Census Area

Aleutians East	0	Kenai Peninsula	5	Skagway-Hoonah-Angoon	0
Aleutians West	1	Ketchikan Gateway	2	Southeast Fairbanks	0
Anchorage	18	Kodiak Island	0	Valdez-Cordova	0
Bethel	0	Lake and Peninsula	0	Wade Hampton	0
Bristol Bay	0	Matanuska-Susitna	2	Wrangell-Petersburg	0
Denali	0	Nome	1	Yakutat	0
Dillingham	0	North Slope	0	Yukon-Koyukuk	0
Fairbanks North Star	5	Northwest Arctic	0	Unknown	0
Haines	0	Prince of Wales-Outer Ketchikan	3		
Juneau	4	Sitka	0		

Stage at Diagnosis



5 year Survival (U.S., 1997)
All Stages 50.4% Localized 94.6%

Pancreas

Data Definition: Incidence data were obtained from the Alaska Cancer Registry using primary site ICD-O-2 codes C25.0 - C25.9, excluding morphology codes 9590-9989. Mortality data were obtained from Alaska State death certificates using the underlying cause of death ICD-9 codes 157.0 - 157.9.

1997 Alaska Residents

Incidence and Mortality Summary by Sex

rates per 100,000 population age-adjusted to 1970 U.S. population

Incidence	<u>Male</u>	<u>Female</u>	<u>Total</u>
In situ cancer	0	1	1
Invasive cancer	18	17	35
Incidence rate*	9.5	8.8	9.1
1997 U.S. rate*	10.0	7.7	8.8

*Excludes in situ cases

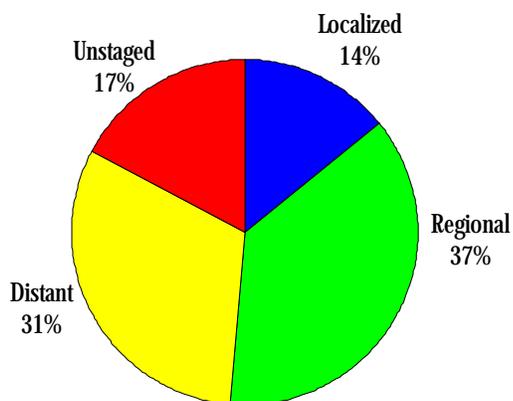
Mortality	<u>Male</u>	<u>Female</u>	<u>Total</u>
Deaths	21	14	35
Mortality rate	12.4	6.8	9.3
1997 U.S. rate	9.7	7.1	8.3

Invasive Pancreatic Cancer by Borough/Census Area

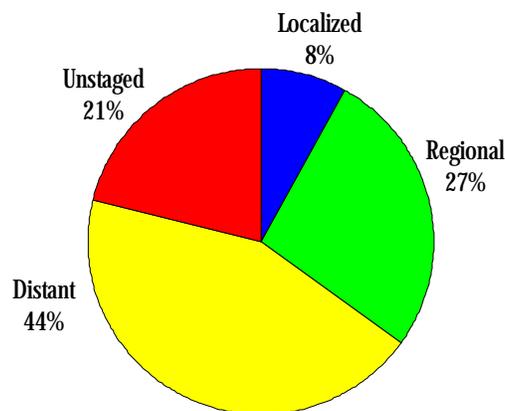
Aleutians East	0	Kenai Peninsula	4	Skagway-Hoonah-Angoon	0
Aleutians West	1	Ketchikan Gateway	0	Southeast Fairbanks	0
Anchorage	9	Kodiak Island	1	Valdez-Cordova	0
Bethel	1	Lake and Peninsula	1	Wade Hampton	0
Bristol Bay	0	Matanuska-Susitna	4	Wrangell-Petersburg	1
Denali	0	Nome	1	Yakutat	0
Dillingham	0	North Slope	2	Yukon-Koyukuk	1
Fairbanks North Star	6	Northwest Arctic	2	Unknown	0
Haines	0	Prince of Wales-Outer Ketchikan	0		
Juneau	1	Sitka	0		

Stage at Diagnosis

Alaska (n=35)



U.S.



5 year Survival (U.S., 1997)
All Stages 4.1% Localized 17.4%

Prostate

Data Definition: Incidence data were obtained from the Alaska Cancer Registry using primary site ICD-O-2 code C61.9, excluding morphology codes 9590 - 9989. Mortality data were obtained from Alaska State death certificates using the underlying cause of death ICD-9 code 185.

1997 Alaska Residents Incidence and Mortality Summary by Sex rates per 100,000 population age-adjusted to 1970 U.S. population

<u>Incidence</u>	<u>Male</u>
In situ cancer	0
Invasive cancer	226
Incidence rate	132.9
1997 U.S. rate*	139.1

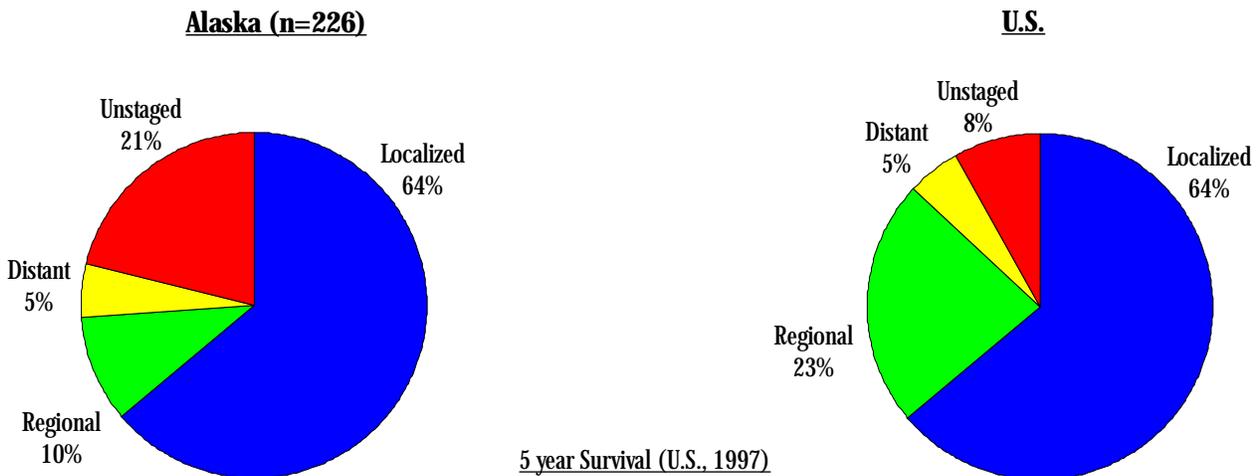
*Excludes in situ cases

<u>Mortality</u>	<u>Male</u>
Deaths	21
Mortality rate	15.4
1997 U.S. rate	22.5

Prostate Cancer by Borough/Census Area

Aleutians East	0	Kenai Peninsula	16	Skagway-Hoonah-Angoon	2
Aleutians West	0	Ketchikan Gateway	11	Southeast Fairbanks	3
Anchorage	113	Kodiak Island	3	Valdez-Cordova	6
Bethel	0	Lake and Peninsula	0	Wade Hampton	3
Bristol Bay	0	Matanuska-Susitna	17	Wrangell-Petersburg	4
Denali	1	Nome	0	Yakutat	1
Dillingham	1	North Slope	0	Yukon-Koyukuk	1
Fairbanks North Star	28	Northwest Arctic	1	Unknown	0
Haines	2	Prince of Wales-Outer Ketchikan	3		
Juneau	8	Sitka	2		

Stage at Diagnosis



Stomach

Data Definition: Incidence data were obtained from the Alaska Cancer Registry using primary site ICD-O-2 codes C16.0 - C16.9, excluding morphology codes 9590-9989. Mortality data were obtained from Alaska State death certificates using the underlying cause of death ICD-9 codes 151.0 - 151.9.

1997 Alaska Residents Incidence and Mortality Summary by Sex rates per 100,000 population age-adjusted to 1970 U.S. population

<u>Incidence</u>	<u>Male</u>	<u>Female</u>	<u>Total</u>
In situ cancer	0	0	0
Invasive cancer	19	13	32
Incidence rate	9.5	6.1	7.9
1997 U.S. rate*	9.8	4.3	6.7

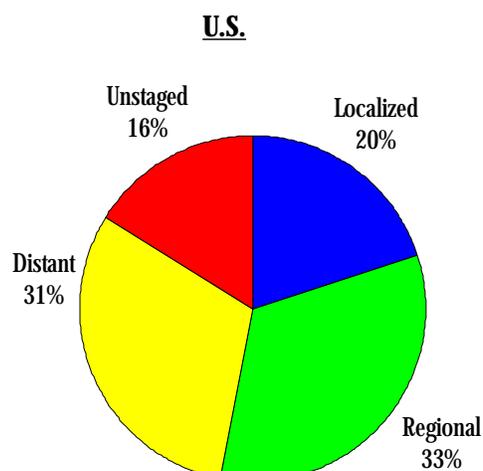
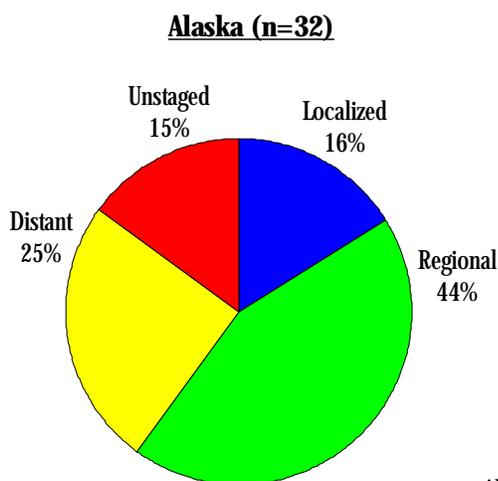
*Excludes in situ cases

<u>Mortality</u>	<u>Male</u>	<u>Female</u>	<u>Total</u>
Deaths	13	5	18
Mortality rate	6.2	2.8	4.5
1997 U.S. rate	5.5	2.6	3.8

Stomach Cancer by Borough/Census Area

Aleutians East	0	Kenai Peninsula	0	Skagway-Hoonah-Angoon	1
Aleutians West	0	Ketchikan Gateway	0	Southeast Fairbanks	0
Anchorage	9	Kodiak Island	1	Valdez-Cordova	0
Bethel	1	Lake and Peninsula	1	Wade Hampton	2
Bristol Bay	0	Matanuska-Susitna	4	Wrangell-Petersburg	0
Denali	0	Nome	2	Yakutat	1
Dillingham	0	North Slope	1	Yukon-Koyukuk	1
Fairbanks North Star	7	Northwest Arctic	0	Unknown	0
Haines	0	Prince of Wales-Outer Ketchikan	0		
Juneau	1	Sitka	0		

Stage at Diagnosis



5 year Survival (U.S., 1997)
All Stages 21.3% Localized 60.3%

Thyroid

Data Definition: Incidence data were obtained from the Alaska Cancer Registry using primary site ICD-O-2 code C73.9, excluding morphology codes 9590-9989. Mortality data were obtained from Alaska State death certificates using the underlying cause of death ICD-9 code 193.

1997 Alaska Residents Incidence and Mortality Summary by Sex rates per 100,000 population age-adjusted to 1970 U.S. population

<u>Incidence</u>	<u>Male</u>	<u>Female</u>	<u>Total</u>
In situ cancer	0	0	0
Invasive cancer	9	29	38
Incidence rate	2.6	9.6	6.1
1997 U.S. rate*	3.1	8.4	5.8

*Excludes in situ cases

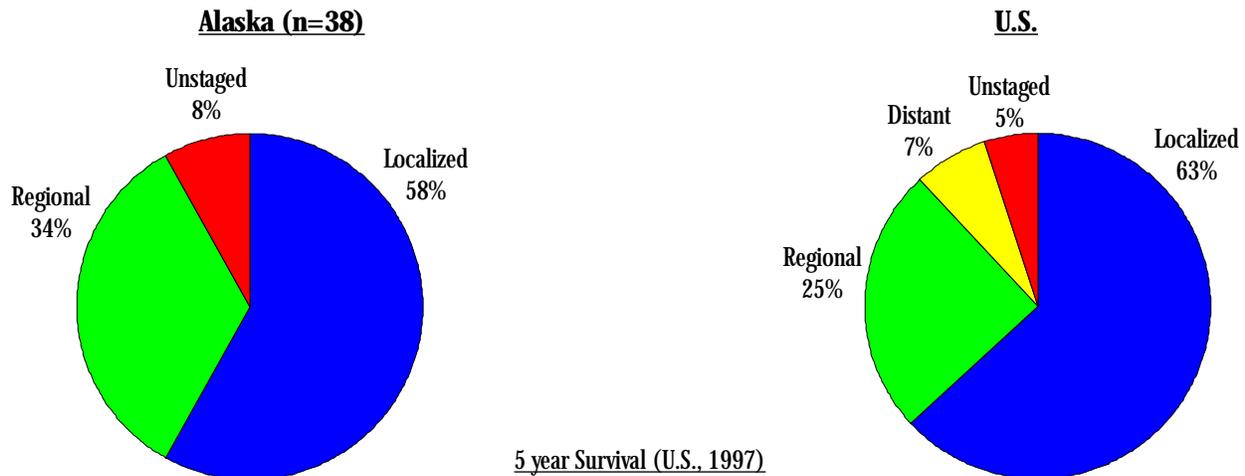
<u>Mortality</u>	<u>Male</u>	<u>Female</u>	<u>Total</u>
Deaths	0	2	2
Mortality rate	0	n/c**	n/c**
1997 U.S. rate	0.4	0.4	0.4

**n/c=rate not calculated if n<5

Thyroid Cancer by Borough/Census Area

Aleutians East	1	Kenai Peninsula	5	Skagway-Hoonah-Angoon	0
Aleutians West	0	Ketchikan Gateway	0	Southeast Fairbanks	0
Anchorage	19	Kodiak Island	0	Valdez-Cordova	0
Bethel	0	Lake and Peninsula	0	Wade Hampton	0
Bristol Bay	0	Matanuska-Susitna	3	Wrangell-Petersburg	2
Denali	1	Nome	0	Yakutat	0
Dillingham	0	North Slope	0	Yukon-Koyukuk	0
Fairbanks North Star	5	Northwest Arctic	0	Unknown	0
Haines	0	Prince of Wales-Outer Ketchikan	1		
Juneau	0	Sitka	1		

Stage at Diagnosis



5 year Survival (U.S., 1997)
All Stages 95.1% Localized 99.5%

Urinary Bladder*

Data Definition: Incidence data were obtained from the Alaska Cancer Registry using primary site ICD-O-2 codes C67.0 - C67.9, and excluding morphology codes 9590-9989. Mortality data were obtained from Alaska State death certificates using the underlying cause of death ICD-9 codes 188.0 - 188.9.

1997 Alaska Residents

Incidence and Mortality Summary by Sex

rates per 100,000 population age-adjusted to 1970 U.S. population

<u>Incidence</u>	<u>Male</u>	<u>Female</u>	<u>Total</u>
In situ and invasive cancer	68	20	88
Incidence rate	40.2	10.0	23.8
1997 U.S. rate	28.2	7.5	16.5

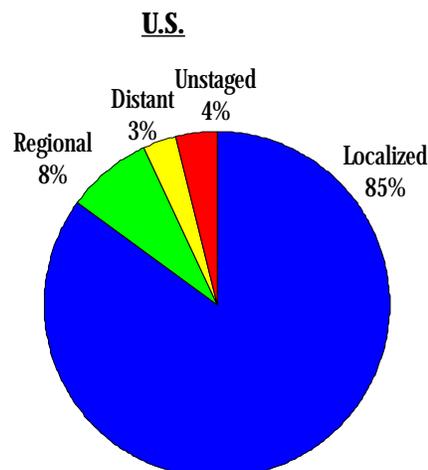
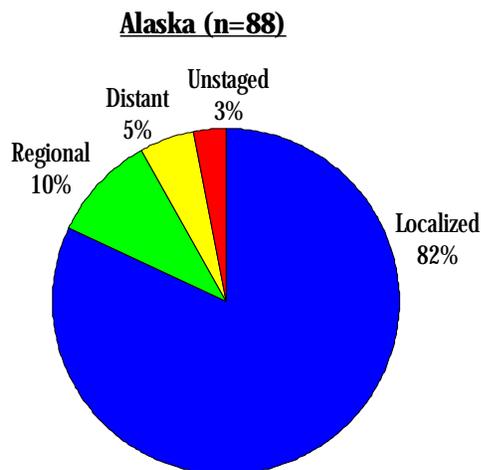
*Urinary Bladder (includes in situ)

<u>Mortality</u>	<u>Male</u>	<u>Female</u>	<u>Total</u>
Deaths	8	5	13
Mortality rate	6.2	2.5	4.0
1997 U.S. rate	5.4	1.7	3.2

Bladder Cancer by Borough/Census Area

Aleutians East	0	Kenai Peninsula	9	Skagway-Hoonah-Angoon	0
Aleutians West	0	Ketchikan Gateway	4	Southeast Fairbanks	0
Anchorage	37	Kodiak Island	4	Valdez-Cordova	3
Bethel	0	Lake and Peninsula	0	Wade Hampton	0
Bristol Bay	0	Matanuska-Susitna	10	Wrangell-Petersburg	0
Denali	0	Nome	2	Yakutat	0
Dillingham	0	North Slope	0	Yukon-Koyukuk	0
Fairbanks North Star	10	Northwest Arctic	1	Unknown	1
Haines	0	Prince of Wales-Outer Ketchikan	1		
Juneau	5	Sitka	1		

Stage at Diagnosis



5 year Survival (U.S., 1997)
All Stages 81.0% Localized 93.4%

Uterus

Data Definition: Incidence data were obtained from the Alaska Cancer Registry using primary site ICD-O-2 codes C54.0 - C54.9 and C55.9, and excluding morphology codes 9590-9989. Mortality data were obtained from Alaska State death certificates using the underlying cause of death ICD-9 codes 179, 182.0 - 182.1 and 182.8.

1997 Alaska Residents

Incidence and Mortality Summary by Sex

rates per 100,000 population age-adjusted to 1970 U.S. population

Incidence

	<u>Female</u>
In situ cancer	0
Invasive cancer	37
Incidence rate	17.7
1997 U.S. rate*	22.1

*Excludes in situ cases

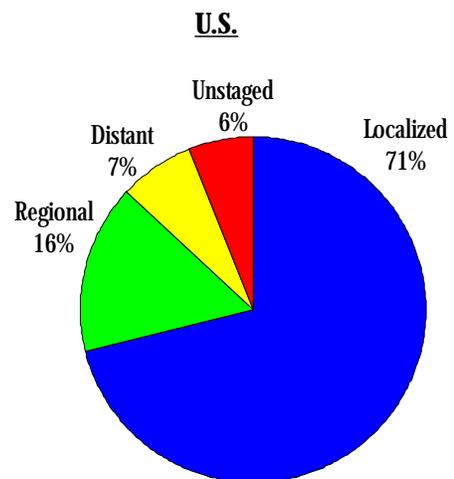
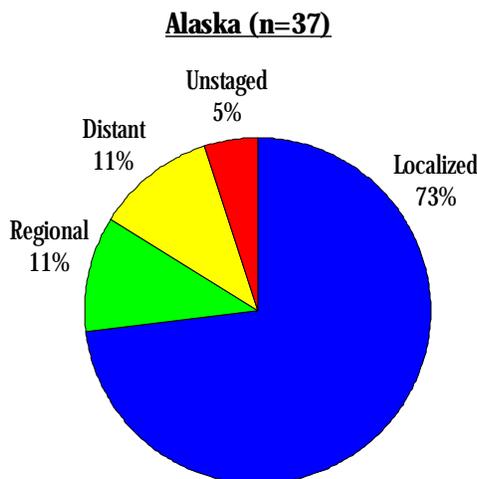
Mortality

	<u>Female</u>
Deaths	7
Mortality rate	4.0
1997 U.S. rate	3.2

Uterine Cancer by Borough/Census Area

Aleutians East	0	Kenai Peninsula	3	Skagway-Hoonah-Angoon	0
Aleutians West	0	Ketchikan Gateway	3	Southeast Fairbanks	0
Anchorage	11	Kodiak Island	1	Valdez-Cordova	0
Bethel	1	Lake and Peninsula	1	Wade Hampton	0
Bristol Bay	0	Matanuska-Susitna	3	Wrangell-Petersburg	0
Denali	0	Nome	0	Yakutat	1
Dillingham	1	North Slope	0	Yukon-Koyukuk	0
Fairbanks North Star	7	Northwest Arctic	0	Unknown	0
Haines	0	Prince of Wales-Outer Ketchikan	0		
Juneau	4	Sitka	1		

Stage at Diagnosis



5 year Survival (U.S., 1997)

All Stages 83.7% Localized 95.7%

Section III

Table 1. Age Distribution of Invasive Cancers - Alaska, 1997

Site of Cancer	All Ages		00-04		05-09		10-14		15-19		20-24		25-29		30-34		35-39		40-44	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
All Sites	1747		15	0.9%	5	0.3%	6	0.3%	3	0.2%	10	0.6%	20	1.1%	39	2.2%	84	4.8%	101	5.8%
Oral Cavity & Pharynx	47		0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	2.1%	3	6.4%	2	4.3%
Lip	4		0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	25.0%	0	0.0%
Tongue	9		0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	11.1%	0	0.0%	1	11.1%
Salivary Glands	6		0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	16.7%	0	0.0%
Floor of Mouth	5		0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Gum & Other Mouth	4		0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Nasopharynx	7		0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Tonsil	6		0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	16.7%	1	16.7%
Oropharynx	0		0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Hypopharynx	4		0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Other Oral Cavity	2		0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Digestive System	318		1	0.3%	0	0.0%	0	0.0%	0	0.0%	1	0.3%	0	0.0%	5	1.6%	15	4.7%	13	4.1%
Esophagus	21		0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	4.8%	0	0.0%
Stomach	32		0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	3.1%	3	9.4%	0	0.0%
Small Intestine	5		0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	20.0%	1	20.0%	0	0.0%
Colon & Rectum	176		0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	2	1.1%	7	4.0%	9	5.1%
Colon	122		0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	2	1.6%	6	4.9%	6	4.9%
Rectum & Rectosigmoid	54		0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	1.9%	3	5.6%
Anus, Anal Canal & Anorectum	12		0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	3	25.0%
Liver & Intrahepatic Bile Ducts	23		1	4.3%	0	0.0%	0	0.0%	0	0.0%	1	4.3%	0	0.0%	0	0.0%	1	4.3%	0	0.0%

Table 1. Age Distribution of Invasive Cancers - Alaska, 1997

Site of Cancer	All Ages		45-49		50-54		55-59		60-64		65-69		70-74		75-79		80-84		85+	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
All Sites	1747		155	8.9%	193	11.0%	202	11.6%	189	10.8%	227	13.0%	217	12.4%	147	8.4%	77	4.4%	57	3.3%
Oral Cavity & Pharynx	47		6	12.8%	9	19.1%	8	17.0%	4	8.5%	4	8.5%	4	8.5%	4	8.5%	1	2.1%	1	2.1%
Lip	4		1	25.0%	1	25.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	25.0%
Tongue	9		1	11.1%	3	33.3%	0	0.0%	0	0.0%	1	11.1%	0	0.0%	1	11.1%	1	11.1%	0	0.0%
Salivary Glands	6		0	0.0%	0	0.0%	1	16.7%	1	16.7%	0	0.0%	1	16.7%	2	33.3%	0	0.0%	0	0.0%
Floor of Mouth	5		0	0.0%	1	20.0%	1	20.0%	2	40.0%	0	0.0%	1	20.0%	0	0.0%	0	0.0%	0	0.0%
Gum & Other Mouth	4		1	25.0%	0	0.0%	2	50.0%	0	0.0%	1	25.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Nasopharynx	7		2	28.6%	1	14.3%	0	0.0%	0	0.0%	2	28.6%	1	14.3%	1	14.3%	0	0.0%	0	0.0%
Tonsil	6		1	16.7%	2	33.3%	1	16.7%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Oropharynx	0		0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Hypopharynx	4		0	0.0%	0	0.0%	2	50.0%	1	25.0%	0	0.0%	1	25.0%	0	0.0%	0	0.0%	0	0.0%
Other Oral Cavity	2		0	0.0%	1	50.0%	1	50.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Digestive System	318		25	7.9%	32	10.1%	41	12.9%	34	10.7%	41	12.9%	46	14.5%	30	9.4%	20	6.3%	14	4.4%
Esophagus	21		1	4.8%	4	19.0%	1	4.8%	3	14.3%	5	23.8%	2	9.5%	1	4.8%	3	14.3%	0	0.0%
Stomach	32		2	6.3%	2	6.3%	4	12.5%	6	18.8%	5	15.6%	5	15.6%	1	3.1%	1	3.1%	2	6.3%
Small Intestine	5		0	0.0%	1	20.0%	1	20.0%	0	0.0%	0	0.0%	0	0.0%	1	20.0%	0	0.0%	0	0.0%
Colon & Rectum	176		13	7.4%	19	10.8%	25	14.2%	17	9.7%	22	12.5%	25	14.2%	18	10.2%	12	6.8%	7	4.0%
Colon	122		7	5.7%	11	9.0%	17	13.9%	10	8.2%	18	14.8%	14	11.5%	12	9.8%	12	9.8%	7	5.7%
Rectum & Rectosigmoid	54		6	11.1%	8	14.8%	8	14.8%	7	13.0%	4	7.4%	11	20.4%	6	11.1%	0	0.0%	0	0.0%
Anus, Anal Canal & Anorectum	12		3	25.0%	0	0.0%	0	0.0%	1	8.3%	2	16.7%	2	16.7%	0	0.0%	1	8.3%	0	0.0%
Liver & Intrahepatic Bile Ducts	23		4	17.4%	0	0.0%	4	17.7%	4	17.4%	3	13.0%	2	8.7%	1	4.3%	0	0.0%	2	8.7%

Table 1. Age Distribution of Invasive Cancers - Alaska, 1997

Site of Cancer	All Ages		00-04		05-09		10-14		15-19		20-24		25-29		30-34		35-39		40-44	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
Liver	19	5.3%	1	5.3%	0	0.0%	0	0.0%	0	0.0%	1	5.3%	0	0.0%	0	0.0%	1	5.3%	0	0.0%
Intrahepatic Bile Duct	4	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Gallbladder	5	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Other Biliary Tract	3	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Pancreas	35	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	2.9%	1	2.9%
Retroperitoneum	1	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Peritoneum, Omentum & Mesentery	1	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	100%	0	0.0%
Other Digestive Organs	4	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	25.0%	0	0.0%	0	0.0%
Respiratory System	275	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	0.4%	1	0.4%	5	1.8%	10	3.6%
Nasal Cavity, Middle Ear & Accessory	5	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	20.0%	0	0.0%	0	0.0%	0	0.0%
Larynx	16	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	6.3%
Lung & Bronchus	250	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	0.4%	5	2.0%	9	3.6%
Pleura	4	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Trachea & Other	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Bones & Joints	6	0.0%	0	0.0%	1	16.7%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	2	33.3%	0	0.0%
Soft Tissue (Incl Heart)	11	18.2%	2	18.2%	0	0.0%	0	0.0%	0	0.0%	1	9.1%	1	9.1%	1	9.1%	0	0.0%	0	0.0%
Skin (excl basal & squamous)	61	0.0%	0	0.0%	0	0.0%	0	0.0%	1	1.6%	1	1.6%	2	3.3%	4	6.6%	6	9.8%	5	8.2%
Melanoma of the Skin	56	0.0%	0	0.0%	0	0.0%	0	0.0%	1	1.8%	1	1.8%	2	3.6%	4	7.1%	5	8.9%	4	7.1%
Other Skin	5	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	20.0%	1	20.0%
Breast	285	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	4	1.4%	16	5.6%	30	10.5%
Female Genital System	110	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	2	1.8%	5	4.5%	3	2.7%	9	8.2%	13	11.8%

Table 1. Age Distribution of Invasive Cancers - Alaska, 1997

Site of Cancer	All Ages		45-49		50-54		55-59		60-64		65-69		70-74		75-79		80-84		85+	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
Liver	19		4	21.1%	0	0.0%	3	15.8%	3	15.8%	3	15.8%	2	10.5%	0	0.0%	0	0.0%	1	5.3%
Intrahepatic Bile Duct	4		0	0.0%	0	0.0%	1	25.0%	1	25.0%	0	0.0%	0	0.0%	1	25.0%	0	0.0%	1	25.0%
Gallbladder	5		0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	20.0%	2	40.0%	0	0.0%	2	40.0%
Other Biliary Tract	3		0	0.0%	0	0.0%	1	33.3%	1	33.3%	0	0.0%	0	0.0%	1	33.3%	0	0.0%	0	0.0%
Pancreas	35		1	2.9%	6	17.1%	4	11.4%	1	2.9%	3	8.6%	9	25.7%	5	14.3%	3	8.6%	1	2.9%
Retroperitoneum	1		0	0.0%	0	0.0%	1	100.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Peritoneum, Omentum & Mesentery	1		0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Other Digestive Organs	4		1	25.0%	0	0.0%	0	0.0%	1	25.0%	1	25.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Respiratory System	275		19	6.9%	26	9.5%	29	10.5%	36	13.1%	49	17.8%	50	18.2%	31	11.3%	11	4.0%	7	2.5%
Nasal Cavity, Middle Ear & Accessory	5		1	20.0%	1	20.0%	0	0.0%	0	0.0%	1	20.0%	0	0.0%	1	20.0%	0	0.0%	0	0.0%
Larynx	16		0	0.0%	3	18.8%	2	12.5%	5	31.3%	1	6.3%	3	18.8%	0	0.0%	0	0.0%	1	6.3%
Lung & Bronchus	250		18	7.2%	22	8.8%	27	10.8%	31	12.4%	47	18.8%	46	18.4%	28	11.2%	10	4.0%	6	2.4%
Pleura	4		0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	25.0%	2	50.0%	1	25.0%	0	0.0%
Trachea & Other	0		0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Bones & Joints	6		2	33.3%	1	16.7%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Soft Tissue (Incl Heart)	11		1	9.1%	0	0.0%	1	9.1%	1	9.1%	3	27.3%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Skin (excl basal & squamous)	61		14	23.0%	8	13.1%	5	8.2%	7	11.5%	3	4.9%	3	4.9%	0	0.0%	1	1.6%	1	1.6%
Melanoma of the Skin	56		14	25.0%	7	12.5%	5	8.9%	6	10.7%	2	3.6%	3	5.4%	0	0.0%	1	1.8%	1	1.8%
Other Skin	5		0	0.0%	1	20.0%	0	0.0%	1	20.0%	1	20.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Breast	285		40	14.0%	48	16.8%	31	10.9%	29	10.2%	32	11.2%	27	9.5%	16	5.6%	6	2.1%	6	2.1%
Female Genital System	110		11	10.0%	10	9.1%	15	13.6%	9	8.2%	7	6.4%	13	11.8%	6	5.5%	4	3.6%	3	2.7%

Table 1. Age Distribution of Invasive Cancers - Alaska, 1997

Site of Cancer	All Ages		00-04		05-09		10-14		15-19		20-24		25-29		30-34		35-39		40-44	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
Cervix Uteri	26	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	2	7.7%	3	11.5%	2	7.7%	6	23.1%	3	11.5%
Corpus and Uterus, NOS	37	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	2	5.4%	2	5.4%
Corpus Uteri	33	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	3.0%	2	6.1%
Uterus NOS	4	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	25.0%	0	0.0%
Ovary	41	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	2	4.9%	1	2.4%	1	2.4%	7	17.1%
Vagina	2	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	50.0%
Vulva	2	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Other Female Genital Organs	2	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Male Genital System	246	0.0%	0	0.0%	0	0.0%	0	0.0%	1	0.4%	2	0.8%	3	1.2%	5	2.0%	4	1.6%	2	0.8%
Prostate	226	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	0.4%
Testis	20	0.0%	0	0.0%	0	0.0%	0	0.0%	1	5.0%	2	10.0%	3	15.0%	5	25.0%	4	20.0%	1	5.0%
Penis	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Other Male Genital Organs	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Urinary System	147	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	3	2.0%	3	2.0%	6	4.1%
Urinary Bladder (including in situ)	88	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	1.1%	1	1.1%	3	3.4%
Kidney and Renal Pelvis	56	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	2	3.6%	2	3.6%	3	5.4%
Ureter	3	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Other Urinary Organs	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Eye & Orbit	1	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Brain & Nervous System	25	8.0%	2	8.0%	1	4.0%	0	0.0%	0	0.0%	0	0.0%	4	16.0%	2	8.0%	2	8.0%	0	0.0%
Brain	24	8.3%	2	8.3%	1	4.2%	0	0.0%	0	0.0%	0	0.0%	4	16.7%	2	8.3%	2	8.3%	0	0.0%
Cranial Nerves & Other	1	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%

Table 1. Age Distribution of Invasive Cancers - Alaska, 1997

Site of Cancer	All Ages		45-49		50-54		55-59		60-64		65-69		70-74		75-79		80-84		85+	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
Cervix Uteri	26		2	7.7%	1	3.8%	4	15.4%	1	3.8%	1	3.8%	1	3.8%	0	0.0%	0	0.0%	0	0.0%
Corpus and Uterus, NOS	37		3	8.1%	4	10.8%	6	16.2%	4	10.8%	3	8.1%	5	13.5%	3	8.1%	3	8.1%	2	5.4%
Corpus Uteri	33		3	9.1%	3	9.1%	6	18.2%	4	12.1%	3	9.1%	4	12.1%	3	9.1%	2	6.1%	2	6.1%
Uterus NOS	4		0	0.0%	1	25.0%	0	0.0%	0	0.0%	0	0.0%	1	25.0%	0	0.0%	1	25.0%	0	0.0%
Ovary	41		6	14.6%	4	9.8%	3	7.3%	3	7.3%	3	7.3%	6	14.6%	3	7.3%	1	2.4%	1	2.4%
Vagina	2		0	0.0%	0	0.0%	1	50.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Vulva	2		0	0.0%	0	0.0%	0	0.0%	1	50.0%	0	0.0%	1	50.0%	0	0.0%	0	0.0%	0	0.0%
Other Female Genital Organs	2		0	0.0%	1	50.0%	1	50.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Male Genital System	246		7	2.8%	20	8.1%	25	10.2%	35	14.2%	42	17.1%	42	17.1%	33	13.4%	15	6.1%	10	4.1%
Prostate	226		4	1.8%	20	8.8%	24	10.6%	35	15.5%	42	18.6%	42	18.6%	33	14.6%	15	6.6%	10	4.4%
Testis	20		3	15.0%	0	0.0%	1	5.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Penis	0		0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Other Male Genital Organs	0		0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Urinary System	147		11	7.5%	10	6.8%	24	16.3%	18	12.2%	23	15.6%	16	10.9%	13	8.8%	14	9.5%	6	4.1%
Urinary Bladder (including in situ)	88		5	5.7%	6	6.8%	13	14.8%	5	5.7%	16	18.2%	14	15.9%	7	8.0%	11	12.5%	6	6.8%
Kidney and Renal Pelvis	56		6	10.7%	4	7.1%	11	19.6%	12	21.4%	7	12.5%	1	1.8%	5	8.9%	3	5.4%	0	0.0%
Ureter	3		0	0.0%	0	0.0%	0	0.0%	1	33.3%	0	0.0%	1	33.3%	1	33.3%	0	0.0%	0	0.0%
Other Urinary Organs	0		0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Eye & Orbit	1		1	100.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Brain & Nervous System	25		0	0.0%	4	16.0%	4	16.0%	1	4.0%	0	0.0%	2	8.0%	0	0.0%	1	4.0%	0	0.0%
Brain	24		0	0.0%	4	16.7%	4	16.7%	0	0.0%	0	0.0%	2	8.3%	0	0.0%	1	4.2%	0	0.0%
Cranial Nerves & Other	1		0	0.0%	0	0.0%	0	0.0%	1	100.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%

Table 1. Age Distribution of Invasive Cancers - Alaska, 1997

Site of Cancer	All Ages		00-04		05-09		10-14		15-19		20-24		25-29		30-34		35-39		40-44	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
Endocrine System	39		0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	2.6%	1	2.6%	5	12.8%	4	10.3%	6	15.4%
Thyroid	38		0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	2.6%	1	2.6%	5	13.2%	4	10.5%	6	15.8%
Thymus & Other	1		0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Lymphomas	95		4	4.2%	1	1.1%	2	2.1%	1	1.1%	1	1.1%	3	3.2%	4	4.2%	8	8.4%	10	10.5%
Hodgkin's Disease	14		0	0.0%	0	0.0%	1	7.1%	1	7.1%	0	0.0%	2	14.3%	1	7.1%	3	21.4%	1	7.1%
Non-Hodgkin's Lymphomas	81		4	4.9%	1	1.2%	1	1.2%	0	0.0%	1	1.2%	1	1.2%	3	3.7%	6	6.2%	9	11.1%
Multiple Myeloma	9		0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	2	22.2%
Leukemias	45		5	11.1%	1	2.2%	3	6.7%	0	0.0%	1	2.2%	0	0.0%	1	2.2%	5	11.1%	2	4.4%
Lymphocytic	20		5	25.0%	1	5.0%	2	10.0%	0	0.0%	1	5.0%	0	0.0%	0	0.0%	0	0.0%	1	5.0%
Myeloid	19		0	0.0%	0	0.0%	1	5.3%	0	0.0%	0	0.0%	0	0.0%	1	5.3%	5	26.3%	0	0.0%
Monocytic	0		0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Other Leukemia	6		0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	16.7%
Ill Defined & Unspecified Sites	27		1	3.7%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	2	7.4%	0	0.0%

Table 1. Age Distribution of Invasive Cancers - Alaska, 1997

Site of Cancer	All Ages		45-49		50-54		55-59		60-64		65-69		70-74		75-79		80-84		85+	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
Endocrine System	39		7	17.9%	5	12.8%	4	10.3%	3	7.7%	1	2.6%	1	2.6%	0	0.0%	0	0.0%	1	2.6%
Thyroid	38		7	18.4%	4	10.5%	4	10.5%	3	7.9%	1	2.6%	1	2.6%	0	0.0%	0	0.0%	1	2.6%
Thymus & Other	1		0	0.0%	1	100.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Lymphomas	95		5	5.3%	14	14.7%	6	6.3%	6	6.3%	11	11.6%	9	9.5%	4	4.2%	3	3.2%	3	3.2%
Hodgkin's Disease	14		0	0.0%	2	14.3%	0	0.0%	0	0.0%	3	21.4%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Non-Hodgkin's Lymphomas	81		5	6.2%	12	14.8%	6	7.4%	6	7.4%	8	9.9%	9	11.1%	4	4.9%	3	3.7%	3	3.7%
Multiple Myeloma	9		1	11.1%	1	11.1%	3	33.3%	0	0.0%	1	11.1%	0	0.0%	0	0.0%	1	11.1%	0	0.0%
Leukemias	45		3	6.7%	4	8.9%	2	4.4%	2	4.4%	6	13.3%	1	2.2%	6	13.3%	0	0.0%	3	6.7%
Lymphocytic	20		2	10.0%	1	5.0%	1	5.0%	0	0.0%	2	10.0%	0	0.0%	2	10.0%	0	0.0%	2	10.0%
Myeloid	19		1	5.3%	2	10.5%	1	5.3%	2	10.5%	2	10.5%	1	5.3%	2	10.5%	0	0.0%	1	5.3%
Monocytic	0		0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Other Leukemia	6		0	0.0%	1	16.7%	0	0.0%	0	0.0%	2	33.3%	0	0.0%	2	33.3%	0	0.0%	0	0.0%
Ill Defined & Unspecified Sites	27		2	7.4%	1	3.7%	4	14.8%	4	14.8%	4	14.8%	3	11.1%	4	14.8%	0	0.0%	2	7.4%

Table 2-a. Total Cancer Incidence and Mortality by Site - Alaska, 1997

Site of Cancer	INCIDENCE					MORTALITY				
	# of Cases	Rate per 100,000	95% CI		93-97 US Rate	# of Cases	Rate per 100,000	95% CI		93-97 US Rate
All Sites	1747	407.1	386.9	428.1	400.6	616	159.6	146.6	173.5	168.3
Oral Cavity & Pharynx	47	10.0	7.1	13.8	10.2	14	3.6	1.9	6.4	2.6
Lip	4	n/c	n/c	n/c	1.0	0	0.0	n/c	n/c	0.0
Tongue	9	1.8	0.7	3.9	2.2	4	n/c	n/c	n/c	0.6
Salivary Glands	6	1.5	0.5	3.7	1.0	0	0.0	n/c	n/c	0.2
Floor of Mouth	5	1.2	0.4	3.2	0.9	0	0.0	n/c	n/c	0.1
Gum & Other Mouth	4	n/c	n/c	n/c	1.7	3	n/c	n/c	n/c	0.4
Nasopharynx	7	1.6	0.6	3.7	0.7	3	n/c	n/c	n/c	0.2
Tonsil	6	0.8	0.3	2.5	1.1	0	0.0	n/c	n/c	0.2
Oropharynx	0	0.0	n/c	n/c	0.3	0	0.0	n/c	n/c	0.2
Hypopharynx	4	n/c	n/c	n/c	0.9	1	n/c	n/c	n/c	0.1
Other Oral Cavity	2	n/c	n/c	n/c	0.3	3	n/c	n/c	n/c	0.5
Digestive System	318	78.2	69.4	88.1	72.9	135	35.8	29.7	42.8	38.6
Esophagus	21	5.4	3.2	8.6	3.9	9	2.7	1.2	5.4	3.6
Stomach	32	7.9	5.3	11.6	6.9	18	4.5	2.6	7.4	4.1
Small Intestine	5	0.9	0.3	2.7	1.4	1	n/c	n/c	n/c	0.3
Colon & Rectum	176	43.3	36.8	50.8	43.9	52	13.2	9.7	17.8	17.2
Colon	122	30.9	25.3	37.4	31.5	42	10.8	7.6	14.9	n/c
Rectum & Rectosigmoid	54	12.4	9.2	16.6	12.3	10	2.5	1.1	5.0	n/c
Anus, Anal Canal & Anorectum	12	2.5	1.2	4.9	1.0	1	n/c	n/c	n/c	0.1
Liver & Intrahepatic Bile Ducts	23	5.5	3.4	8.7	4.0	14	3.9	2.1	6.9	3.5
Liver	19	4.3	2.5	7.2	3.3	11	3.0	1.4	5.7	2.8
Intrahepatic Bile Duct	4	n/c	n/c	n/c	0.7	3	n/c	n/c	n/c	0.7
Gallbladder	5	1.7	0.6	4.2	0.9	3	n/c	n/c	n/c	0.6
Other Biliary Tract	3	n/c	n/c	n/c	1.1	1	n/c	n/c	n/c	0.5
Pancreas	35	9.1	6.2	13.0	8.8	35	9.3	6.3	13.3	8.3
Retroperitoneum	1	n/c	n/c	n/c	0.4	1	n/c	n/c	n/c	0.1
Peritoneum, Omentum & Mesentery	1	n/c	n/c	n/c	0.4	0	0.0	n/c	n/c	0.1
Other Digestive Organs	4	n/c	n/c	n/c	0.3	0	0.0	n/c	n/c	0.1

Note: Rate is not calculated (n/c) where number is less than 5

Table 2-a. Total Cancer Incidence and Mortality by Site - Alaska, 1997

Site of Cancer	INCIDENCE					MORTALITY				
	# of Cases	Rate per 100,000	95% CI		93-97 US Rate	# of Cases	Rate per 100,000	95% CI		93-97 US Rate
Respiratory System	275	70.4	62.0	79.8	61.7	199	52.1	44.9	60.3	50.9
Nasal Cavity, Middle Ear & Accessory	5	1.1	0.3	3.0	0.6	1	n/c	n/c	n/c	0.2
Larynx	16	4.0	2.2	6.8	3.8	6	1.7	0.6	3.9	1.3
Lung & Bronchus	250	64.1	56.1	73.1	56.2	192	50.1	43.0	58.2	49.2
Pleura	4	n/c	n/c	n/c	0.8	0	0.0	n/c	n/c	0.1
Trachea & Other	0	0.0	n/c	n/c	0.2	0	0.0	n/c	n/c	0.1
Bones & Joints	6	0.8	0.3	2.3	0.9	5	0.8	0.2	2.4	0.4
Soft Tissue (Incl Heart)	11	2.3	1.1	4.6	2.5	6	1.2	0.4	3.1	1.3
Skin (excl basal & squamous)	61	10.7	8.0	14.4	16.7	9	1.9	0.8	4.2	2.9
Melanoma of the Skin	56	9.8	7.2	13.3	13.6	7	1.2	0.4	3.1	2.2
Other Skin	5	0.9	0.3	2.7	3.1	2	n/c	n/c	n/c	0.6
Breast (female and male)	285	59.0	51.8	67.2	60.8	41	9.8	6.8	13.7	13.9
Female Genital System	110	22.9	18.4	28.2	25.3	41	10.3	7.3	14.4	8.0
Cervix Uteri	26	4.2	2.6	6.7	4.1	4	n/c	n/c	n/c	1.5
Corpus Uteri	33	8.1	5.4	11.8	11.5	4	n/c	n/c	n/c	1.0
Uterus NOS	4	n/c	n/c	n/c	0.2	3	n/c	n/c	n/c	0.9
Ovary	41	8.5	5.9	12.0	7.8	28	7.2	4.7	10.8	4.2
Vagina	2	n/c	n/c	n/c	0.3	0	0.0	n/c	n/c	0.1
Vulva	2	n/c	n/c	n/c	1.0	1	n/c	n/c	n/c	0.2
Other Female Genital Organs	2	n/c	n/c	n/c	0.3	1	n/c	n/c	n/c	0.1
Male Genital System	246	66.4	58.1	75.7	67.1	22	6.7	4.1	10.4	9.7
Prostate	226	63.6	55.4	72.8	64.4	21	6.6	4.0	10.3	9.5
Testis	20	2.8	1.6	4.8	2.3	0	0.0	n/c	n/c	0.1
Penis	0	0.0	n/c	n/c	0.3	1	n/c	n/c	n/c	0.1
Other Male Genital Organs	0	0.0	n/c	n/c	0.1	0	0.0	n/c	n/c	0.0
Urinary System	147	37.5	31.4	44.6	26.8	23	6.4	4.0	9.9	6.9
Urinary Bladder (including in situ)	88	23.8	18.9	29.7	16.7	13	4.0	2.1	7.0	3.2
Kidney & Renal Pelvis	56	12.8	9.5	17.1	9.4	10	2.4	1.1	4.9	3.5
Ureter	3	n/c	n/c	n/c	0.4	0	0.0	n/c	n/c	0.1
Other Urinary Organs	0	0.0	n/c	n/c	0.3	0	0.0	n/c	n/c	0.1

Note: Rate is not calculated (n/c) where number is less than 5

Table 2-a. Total Cancer Incidence and Mortality by Site - Alaska, 1997

Site of Cancer	INCIDENCE					MORTALITY				
	# of Cases	Rate per 100,000	95% CI		93-97 US Rate	# of Cases	Rate per 100,000	95% CI		93-97 US Rate
			Lower	Upper				Lower	Upper	
Eye & Orbit	1	n/c	n/c	n/c	0.7	0	0.0	n/c	n/c	0.1
Brain & Other Nervous System	25	4.6	2.9	7.3	6.0	15	3.2	1.7	5.7	4.1
Brain	24	4.4	2.7	7.0	5.6	15	3.2	1.7	5.7	4.1
Cranial Nerves & Other	1	n/c	n/c	n/c	0.4	0	0.0	n/c	n/c	0.1
Endocrine System	39	6.2	4.2	9.1	6.0	2	n/c	n/c	n/c	0.7
Thyroid	38	6.1	4.1	9.1	5.4	2	n/c	n/c	n/c	0.3
Thymus & Other	1	n/c	n/c	n/c	0.6	0	0.0	n/c	n/c	0.3
Lymphomas	95	19.5	15.5	24.5	18.7	22	5.4	3.3	8.6	7.3
Hodgkin's Disease	14	2.4	1.2	4.6	2.7	2	n/c	n/c	n/c	0.5
Non-Hodgkin's Lymphomas	81	17.1	13.3	21.9	16.0	20	4.9	2.9	8.0	6.9
Multiple Myeloma	9	1.8	0.8	3.9	4.5	9	2.7	1.2	5.4	3.1
Leukemias	45	9.7	6.9	13.5	10.3	23	5.4	3.3	8.6	6.3
Lymphocytic	20	4.3	2.5	7.2	4.6	6	1.5	0.5	3.7	1.8
Myeloid	19	3.9	2.2	6.6	4.4	11	2.6	1.2	5.0	2.7
Monocytic	0	0.0	n/c	n/c	0.2	0	0.0	n/c	n/c	0.1
Other Leukemia	6	1.5	0.5	3.6	1.1	6	1.4	0.4	3.5	1.7
Ill Defined & Unspecified Sites	27	6.9	4.4	10.4	9.7	50	13.6	10.0	18.3	11.5

Note: Rate is not calculated (n/c) where number is less than 5

Table 2-b. Male Cancer Incidence and Mortality by Site - Alaska, 1997

Site of Cancer	INCIDENCE					MORTALITY				
	# of Cases	Rate per 100,000	95% CI		93-97 US Rate	# of Cases	Rate per 100,000	95% CI		93-97 US Rate
All Sites	924	464.4	432.3	498.7	475.5	337	182.5	162.0	205.3	209.7
Oral Cavity & Pharynx	31	12.6	8.2	19.5	15.3	11	5.1	2.5	10.5	4.0
Lip	3	n/c	n/c	n/c	1.9	0	0.0	n/c	n/c	0.0
Tongue	6	2.2	0.7	6.8	3.2	3	n/c	n/c	n/c	0.9
Salivary Glands	3	n/c	n/c	n/c	1.3	0	0.0	n/c	n/c	0.3
Floor of Mouth	5	2.4	0.7	7.0	1.3	0	0.0	n/c	n/c	0.1
Gum & Other Mouth	1	n/c	n/c	n/c	2.2	2	n/c	n/c	n/c	0.6
Nasopharynx	5	2.4	0.7	7.2	0.9	3	n/c	n/c	n/c	0.3
Tonsil	5	1.3	0.4	5.3	1.8	0	0.0	n/c	n/c	0.3
Oropharynx	0	0.0	n/c	n/c	0.5	0	0.0	n/c	n/c	0.3
Hypopharynx	1	n/c	n/c	n/c	1.5	0	0.0	n/c	n/c	0.3
Other Oral Cavity	2	n/c	n/c	n/c	0.6	3	n/c	n/c	n/c	0.9
Digestive System	183	92.5	78.5	108.9	90.8	85	47.9	37.5	60.9	49.9
Esophagus	15	8.0	4.2	14.6	6.4	5	3.3	1.0	8.6	6.3
Stomach	19	9.5	5.5	16.1	10.2	13	6.2	3.1	12.0	5.9
Small Intestine	2	n/c	n/c	n/c	1.7	1	n/c	n/c	n/c	0.4
Colon & Rectum	101	51.3	41.0	63.9	52.4	29	15.6	10.0	24.0	17.2
Colon	69	36.1	27.4	47.2	36.4	23	12.9	7.8	20.6	n/c
Rectum & Rectosigmoid	32	15.2	10.2	22.8	15.9	6	2.8	0.8	8.0	n/c
Anus, Anal Canal & Anorectum	3	n/c	n/c	n/c	0.9	1	n/c	n/c	n/c	0.1
Liver & Intrahepatic Bile Ducts	20	9.6	5.5	16.4	6.1	11	6.7	3.1	13.3	5.1
Liver	17	7.6	4.1	13.8	5.3	10	5.8	2.5	12.1	4.3
Intrahepatic Bile Duct	3	n/c	n/c	n/c	0.8	1	n/c	n/c	n/c	0.8
Gallbladder	3	n/c	n/c	n/c	0.7	2	n/c	n/c	n/c	0.4
Other Biliary Tract	1	n/c	n/c	n/c	1.3	1	n/c	n/c	n/c	0.6
Pancreas	18	9.5	5.3	16.5	10.2	21	12.4	7.4	20.2	9.7
Retroperitoneum	0	0.0	n/c	n/c	0.4	1	n/c	n/c	n/c	0.1
Peritoneum, Omentum & Mesentery	0	0.0	n/c	n/c	0.2	0	0.0	n/c	n/c	0.1
Other Digestive Organs	1	n/c	n/c	n/c	0.3	0	0.0	n/c	n/c	0.2

Note: Rate is not calculated (n/c) where number is less than 5

Table 2-b. Male Cancer Incidence and Mortality by Site - Alaska, 1997

Site of Cancer	INCIDENCE					MORTALITY				
	# of Cases	Rate per 100,000	95% CI		93-97 US Rate	# of Cases	Rate per 100,000	95% CI		93-97 US Rate
Respiratory System	177	93.0	78.9	109.4	83.1	129	67.9	56.1	82.1	72.4
Nasal Cavity, Middle Ear & Accessory	3	n/c	n/c	n/c	0.8	0	0.0	n/c	n/c	0.2
Larynx	13	6.6	3.3	12.6	6.8	6	3.7	1.2	9.4	2.4
Lung & Bronchus	157	82.2	69.1	97.7	73.7	123	64.2	52.8	78.0	69.4
Pleura	4	n/c	n/c	n/c	1.5	0	0.0	n/c	n/c	0.2
Trachea & Other	0	0.0	n/c	n/c	0.3	0	0.0	n/c	n/c	0.1
Bones & Joints	5	1.2	0.4	5.2	1.1	3	n/c	n/c	n/c	0.5
Soft Tissue (Incl Heart)	7	3.0	1.1	7.8	2.9	2	n/c	n/c	n/c	1.4
Skin (excl basal & squamous)	31	11.7	7.4	18.4	21.9	4	n/c	n/c	n/c	4.2
Melanoma of the Skin	27	10.2	6.2	16.7	16.6	3	n/c	n/c	n/c	3.2
Other Skin	4	n/c	n/c	n/c	5.3	1	n/c	n/c	n/c	1.1
Breast (male)	1	n/c	n/c	n/c	1.0	0	0.0	n/c	n/c	0.3
Female Genital System	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Cervix Uteri	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Corpus Uteri	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Uterus NOS	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Ovary	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Vagina	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Vulva	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Other Female Genital Organs	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Male Genital System	246	138.1	120.4	158.3	152.6	22	15.6	9.4	24.8	25.1
Prostate	226	132.9	115.3	152.9	147.0	21	15.4	9.2	24.5	24.7
Testis	20	5.3	3.1	10.0	4.6	0	0.0	n/c	n/c	0.2
Penis	0	0.0	n/c	n/c	0.6	1	n/c	n/c	n/c	0.2
Other Male Genital Organs	0	0.0	n/c	n/c	0.3	0	0.0	n/c	n/c	0.0
Urinary System	104	56.7	45.5	70.4	42.7	15	9.8	5.2	17.4	10.7
Urinary Bladder (including in situ)	68	40.2	30.5	52.5	28.7	8	6.2	2.6	12.9	5.5
Kidney & Renal Pelvis	33	14.6	9.8	21.9	12.8	7	3.6	1.3	9.1	5.0
Ureter	3	n/c	n/c	n/c	0.7	0	0.0	n/c	n/c	0.1
Other Urinary Organs	0	0.0	n/c	n/c	0.4	0	0.0	n/c	n/c	0.1

Note: Rate is not calculated (n/c) where number is less than 5

Table 2-b. Male Cancer Incidence and Mortality by Site - Alaska, 1997

Site of Cancer	INCIDENCE					MORTALITY				
	<u># of Cases</u>	<u>Rate per 100,000</u>	<u>95% CI</u>		<u>93-97 US Rate</u>	<u># of Cases</u>	<u>Rate per 100,000</u>	<u>95% CI</u>		<u>93-97 US Rate</u>
			<u>Lower</u>	<u>Upper</u>			<u>Lower</u>	<u>Upper</u>		
Eye & Orbit	1	n/c	n/c	n/c	0.8	0	0.0	n/c	n/c	0.1
Brain & Other Nervous System	12	4.1	1.9	9.1	7.2	11	4.7	2.1	10.2	5.0
Brain	12	4.1	1.9	9.1	6.8	11	4.7	2.1	10.2	4.9
Cranial Nerves & Other	0	0.0	n/c	n/c	0.4	0	0.0	n/c	n/c	0.1
Endocrine System	10	2.9	1.3	7.3	3.7	0	0.0	n/c	n/c	0.7
Thyroid	9	2.6	1.1	7.0	3.0	0	0.0	n/c	n/c	0.3
Thymus & Other	1	n/c	n/c	n/c	0.7	0	0.0	n/c	n/c	0.4
Lymphomas	68	26.7	20.1	35.7	22.8	12	5.6	2.8	11.2	9.0
Hodgkin's Disease	11	3.5	1.6	8.1	3.0	2	n/c	n/c	n/c	0.4
Non-Hodgkin's Lymphomas	57	23.3	17.0	31.9	19.8	10	4.7	2.2	10.0	8.5
Multiple Myeloma	4	n/c	n/c	n/c	5.5	5	3.8	1.2	9.7	3.8
Leukemias	28	12.3	7.8	19.4	13.2	12	4.8	2.3	10.0	8.3
Lymphocytic	14	6.4	3.2	12.3	5.9	3	n/c	n/c	n/c	2.6
Myeloid	11	4.5	2.0	9.7	5.4	6	2.8	0.9	7.7	3.5
Monocytic	0	0.0	n/c	n/c	0.3	0	0.0	n/c	n/c	0.1
Other Leukemia	3	n/c	n/c	n/c	1.6	3	n/c	n/c	n/c	2.2
Ill Defined & Unspecified Sites	16	7.5	4.0	13.8	11.0	26	13.1	8.3	20.4	14.2

Note: Rate is not calculated (n/c) where number is less than 5

Table 2-c. Female Cancer Incidence and Mortality by Site - Alaska, 1997

Site of Cancer	INCIDENCE					MORTALITY				
	# of Cases	Rate per 100,000	95% CI		93-97 US Rate	# of Cases	Rate per 100,000	95% CI		93-97 US Rate
All Sites	823	362.3	336.4	389.7	347.8	279	140.2	123.6	158.4	139.8
Oral Cavity & Pharynx	16	7.1	3.9	12.1	5.9	3	n/c	n/c	n/c	1.5
Lip	1	n/c	n/c	n/c	0.3	0	0.0	n/c	n/c	0.0
Tongue	3	n/c	n/c	n/c	1.4	1	n/c	n/c	n/c	0.3
Salivary Glands	3	n/c	n/c	n/c	0.8	0	0.0	n/c	n/c	0.1
Floor of Mouth	0	0.0	n/c	n/c	0.5	0	0.0	n/c	n/c	0.0
Gum & Other Mouth	3	n/c	n/c	n/c	1.3	1	n/c	n/c	n/c	0.3
Nasopharynx	2	n/c	n/c	n/c	0.4	0	0.0	n/c	n/c	0.1
Tonsil	1	n/c	n/c	n/c	0.5	0	0.0	n/c	n/c	0.1
Oropharynx	0	0.0	n/c	n/c	0.1	0	0.0	n/c	n/c	0.1
Hypopharynx	3	n/c	n/c	n/c	0.4	1	n/c	n/c	n/c	0.1
Other Oral Cavity	0	0.0	n/c	n/c	0.2	0	0.0	n/c	n/c	0.3
Digestive System	135	64.8	53.9	77.5	58.8	50	25.6	18.8	34.2	30.0
Esophagus	6	3.1	1.0	7.1	1.8	4	n/c	n/c	n/c	1.5
Stomach	13	6.1	3.0	10.8	4.1	5	2.8	0.9	6.7	2.8
Small Intestine	3	n/c	n/c	n/c	1.2	0	0.0	n/c	n/c	0.3
Colon & Rectum	75	35.6	27.6	45.1	37.2	23	11.3	7.0	17.4	14.4
Colon	53	25.8	19.1	34.3	27.8	19	9.1	5.3	14.6	n/c
Rectum & Rectosigmoid	22	9.6	5.8	15.1	9.4	4	n/c	n/c	n/c	n/c
Anus, Anal Canal & Anorectum	9	4.2	1.8	8.5	1.0	0	0.0	n/c	n/c	0.1
Liver & Intrahepatic Bile Ducts	3	n/c	n/c	n/c	2.3	3	n/c	n/c	n/c	2.3
Liver	2	n/c	n/c	n/c	1.7	1	n/c	n/c	n/c	1.7
Intrahepatic Bile Duct	1	n/c	n/c	n/c	0.5	2	n/c	n/c	n/c	0.6
Gallbladder	2	n/c	n/c	n/c	1.1	1	n/c	n/c	n/c	0.8
Other Biliary Tract	2	n/c	n/c	n/c	0.9	0	0.0	n/c	n/c	0.4
Pancreas	17	8.8	5.0	14.4	7.7	14	6.8	3.6	11.8	7.2
Retroperitoneum	1	n/c	n/c	n/c	0.4	0	0.0	n/c	n/c	0.1
Peritoneum, Omentum & Mesentery	1	n/c	n/c	n/c	0.6	0	0.0	n/c	n/c	0.2
Other Digestive Organs	3	n/c	n/c	n/c	0.3	0	0.0	n/c	n/c	0.1

Note: Rate is not calculated (n/c) where number is less than 5

Table 2-c. Female Cancer Incidence and Mortality by Site - Alaska, 1997

Site of Cancer	INCIDENCE					MORTALITY				
	<u># of Cases</u>	<u>Rate per 100,000</u>	<u>95% CI</u>		<u>93-97 US Rate</u>	<u># of Cases</u>	<u>Rate per 100,000</u>	<u>95% CI</u>		<u>93-97 US Rate</u>
Respiratory System	98	49.5	39.9	60.8	45.3	70	36.8	28.5	46.8	34.7
Nasal Cavity, Middle Ear & Accessory	2	n/c	n/c	n/c	0.4	1	n/c	n/c	n/c	0.1
Larynx	3	n/c	n/c	n/c	1.4	0	0.0	n/c	n/c	0.5
Lung & Bronchus	93	47.1	37.7	58.1	43.0	69	36.2	28.0	46.2	34.0
Pleura	0	0.0	n/c	n/c	0.3	0	0.0	n/c	n/c	0.1
Trachea & Other	0	0.0	n/c	n/c	0.1	0	0.0	n/c	n/c	0.1
Bones & Joints	1	n/c	n/c	n/c	0.7	2	n/c	n/c	n/c	0.3
Soft Tissue (Incl Heart)	4	n/c	n/c	n/c	2.1	4	n/c	n/c	n/c	1.2
Skin (excl basal & squamous)	30	10.3	6.7	15.5	12.4	5	1.8	0.5	5.0	1.8
Melanoma of the Skin	29	10.0	6.4	15.1	11.2	4	n/c	n/c	n/c	1.5
Other Skin	1	n/c	n/c	n/c	1.1	1	n/c	n/c	n/c	0.3
Breast (female)	284	119.4	105.0	135.4	111.9	41	19.1	13.4	26.5	24.8
Female Genital System	110	45.9	37.2	56.3	47.0	41	20.3	14.3	27.9	14.3
Cervix Uteri	26	8.7	5.4	13.6	7.8	4	n/c	n/c	n/c	2.7
Corpus Uteri	33	15.9	10.7	22.8	21.3	4	n/c	n/c	n/c	1.7
Uterus NOS	4	n/c	n/c	n/c	0.4	3	n/c	n/c	n/c	1.6
Ovary	41	16.9	11.8	23.7	14.6	28	14.2	9.3	20.9	7.5
Vagina	2	n/c	n/c	n/c	0.6	0	0.0	n/c	n/c	0.2
Vulva	2	n/c	n/c	n/c	1.7	1	n/c	n/c	n/c	0.3
Other Female Genital Organs	2	n/c	n/c	n/c	0.6	1	n/c	n/c	n/c	0.2
Male Genital System	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Prostate	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Testis	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Penis	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Other Male Genital Organs	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Urinary System	43	20.7	14.7	28.4	14.6	8	3.9	1.6	8.2	4.1
Urinary Bladder (including in situ)	20	10.0	5.9	15.8	7.6	5	2.5	0.8	6.3	1.7
Kidney & Renal Pelvis	23	10.7	6.5	16.5	6.5	3	n/c	n/c	n/c	2.3
Ureter	0	0.0	n/c	n/c	0.3	0	0.0	n/c	n/c	0.1
Other Urinary Organs	0	0.0	n/c	n/c	0.1	0	0.0	n/c	n/c	0.0

Note: Rate is not calculated (n/c) where number is less than 5

Table 2-c. Female Cancer Incidence and Mortality by Site - Alaska, 1997

Site of Cancer	INCIDENCE					MORTALITY				
	# of Cases	Rate per 100,000	95% CI		93-97 US Rate	# of Cases	Rate per 100,000	95% CI		93-97 US Rate
Eye & Orbit	0	0.0	n/c	n/c	0.6	0	0.0	n/c	n/c	0.1
Brain & Other Nervous System	13	5.3	2.7	9.5	4.9	4	n/c	n/c	n/c	3.4
Brain	12	4.7	2.3	8.7	4.6	4	n/c	n/c	n/c	3.3
Cranial Nerves & Other	1	n/c	n/c	n/c	0.3	0	0.0	n/c	n/c	0.1
Endocrine System	29	9.6	6.1	14.6	8.3	2	n/c	n/c	n/c	0.6
Thyroid	29	9.6	6.1	14.6	7.7	2	n/c	n/c	n/c	0.4
Thymus & Other	0	0.0	n/c	n/c	0.5	0	0.0	n/c	n/c	0.3
Lymphomas	27	12.0	7.6	18.0	15.1	10	4.8	2.2	9.4	6.0
Hodgkin's Disease	3	n/c	n/c	n/c	2.4	0	0.0	n/c	n/c	0.4
Non-Hodgkin's Lymphomas	24	10.8	6.7	16.6	12.7	10	4.8	2.2	9.4	5.6
Multiple Myeloma	5	2.2	0.7	5.6	3.7	4	n/c	n/c	n/c	2.6
Leukemias	17	7.0	3.9	11.9	8.0	11	5.5	2.6	10.2	4.8
Lymphocytic	6	2.4	0.8	5.9	3.4	3	n/c	n/c	n/c	1.3
Myeloid	8	3.1	1.2	6.9	3.6	5	2.4	0.7	6.1	2.2
Monocytic	0	0.0	n/c	n/c	0.2	0	0.0	n/c	n/c	0.1
Other Leukemia	1	n/c	n/c	n/c	0.8	2	n/c	n/c	n/c	1.3
Ill Defined & Unspecified Sites	11	6.1	3.0	11.1	8.6	24	13.5	8.6	20.3	9.5

Note: Rate is not calculated (n/c) where number is less than 5

Table 3-a. Cancer Incidence by Race for Selected Sites - Alaska, 1997

Site of Cancer	Total			White			AK Native			Asian-Pacific Islander			Black			1993-97 U.S. Rate
	Rate per 100,000	(# of Cases)	95% CI	Rate per 100,000	(# of Cases)	95% CI	Rate per 100,000	(# of Cases)	95% CI	Rate per 100,000	(# of Cases)	95% CI	Rate per 100,000	(# of Cases)	95% CI	
All Sites	407.1	(1747)	386.9-428.6	395.1	(1315)	372.3-419.1	443.1	(275)	390.8-500.8	296.0*	(63)	221.9-395.7	427.8	(46)	301.9-597.8	400.6
Oral Cavity & Pharynx	10.0	(47)	7.1-13.8	8.5	(33)	5.6-12.0	15.5	(9)	6.9-30.4	n/c			n/c			10.2
Esophagus	5.4	(21)	3.2-8.6	4.5	(14)	2.3-8.1	12.5**	(7)	5.0-26.4		(0)			(0)		3.9
Stomach	7.9	(32)	5.3-11.6	5.2	(15)	2.8-9.1	21.0*	(14)	11.2-36.7	n/c			n/c			6.9
Colorectal	43.3	(176)	36.8-50.8	32.6*	(102)	26.2-40.4	102.7*	(61)	78.0-133.1	35.2	(7)	13.6-89.8	38.4	(5)	11.8-115.4	43.9
Liver	4.3	(19)	2.5-7.2	2.9	(11)	1.3-5.9	7.9	(5)	2.5-19.6	n/c				(0)		3.3
Pancreas	9.1	(35)	6.2-13.0	7.6	(24)	4.7-11.9	19.2*	(10)	9.2-35.7	n/c				(0)		8.8
Lung	64.1	(250)	56.1-73.1	59.0	(177)	50.2-69.1	82.4**	(49)	60.6-109.9	50.2	(11)	24.3-107.0	86.8	(8)	35.1-189.2	56.2
Breast (female)	119.4	(284)	105-135.4	129.3	(231)	111.8-148.9	95.8	(34)	65.7-135.9	69.7*	(10)	31.6-109.9	98.9	(6)	32.1-290.5	111.9
Ovary (female)	16.9	(41)	11.8-23.7	18.2	(32)	12.0-26.8	18.2	(6)	6.5-40.6		(0)		n/c			14.6
Prostate (male)	132.9	(226)	115.3-152.9	128.8	(177)	109.4-151.8	62.9*	(15)	34.9-107.0	142.4	(8)	60.6-303.7	219.2	(10)	102.0-468.1	147.0
Kidney & Renal Pelvis	12.8**	(56)	9.5-17.1	11.5	(41)	8.0-16.3	17.0	(10)	8.0-32.3	n/c			n/c			9.4
Bladder	23.8**	(88)	18.9-29.7	28.8**	(81)	22.5-36.4	n/c			n/c			n/c			16.7
Non-Hodgkins Lymphoma	17.1	(81)	13.3-21.9	17.4	(62)	12.9-23.2	15.2	(12)	7.5-28.5	n/c			n/c			16.0
Leukemia	9.7	(45)	6.9-13.5	10.5	(36)	7.0-15.3	8.4	(7)	3.1-14.7	n/c				(0)		10.3

Unknown race = 48 cases

Rates per 100,000 population age-adjusted to 1970 U.S. population

* Significantly different from U.S. and Alaska

** Significantly different from U.S.

Note: Rate is not calculated (n/c) where number is less than 5

Table 3-b. Cancer Mortality by Race for Selected Sites - Alaska, 1997

Site of Cancer	Total			White			AK Native			Black			Asian/Pacific Islander			1993-97 U.S. Rate
	Rate per 100,000	(# of Cases)	95% CI	Rate per 100,000	(# of Cases)	95% CI	Rate per 100,000	(# of Cases)	95% CI	Rate per 100,000	(# of Cases)	95% CI	Rate per 100,000	(# of Cases)	95% CI	
All Sites	159.6	(616)	146.6-173.5	153.8	(449)	139.1-169.9	217.9*	(133)	181.6-259.8	199.8	(19)	112.5-335.8	82.8*	(14)	42.2-155.3	168.3
Oral Cavity & Pharynx	3.6	(14)	1.9-6.4	3.2	(9)	1.4-6.5	7.9	(5)	2.5-19.7		(0)			(0)		2.6
Stomach	4.5	(18)	2.6-7.4	3.2	(9)	1.4-6.6	12.6*	(8)	5.3-26.1	n/c				(0)		4.1
Colorectal	13.2	(52)	9.7-17.8	10.8**	(32)	7.1-15.8	30.8*	(19)	18.2-49.3	n/c				(0)		17.2
Pancreas	9.3	(35)	6.3-13.3	8.3	(26)	5.2-12.8	17.2	(9)	7.8-33.1		(0)			(0)		8.3
Lung	50.1	(192)	43.0-58.2	46.3	(138)	38.6-55.4	68.6	(40)	48.6-94.4	92.4	(8)	38.1-197.4	30.2	(5)	8.0-88.6	49.2
Breast (female)	19.1	(41)	13.4-26.5	19.3	(30)	12.7-28.4	17.6	(7)	6.6-39.0	n/c			n/c			24.8
Prostate (male)	15.4**	(21)	9.2-24.5	17.4	(16)	9.3-30.3	18.7	(5)	6.0-48.3		(0)			(0)		24.7

Unknown race = 1 death

Rates per 100,000 population age-adjusted to 1970 U.S. population

* Significantly different from U.S. and Alaska

** Significantly different from U.S.

Note: Rate not calculated (n/c) where number is less than 5

Appendices

APPENDIX I

International Classification of Diseases for Oncology - 2nd Edition (ICD-O-2) and International Classification of Diseases - 9th Revision (ICD-9) Codes Used for Grouping Sites of Cancer

SITE OF CANCER	ICD-O-2* codes	ICD-9 codes
Oral cavity and pharynx		
Lip	C00.0 - C00.9	140.0 - 140.9
Tongue	C01.9 - C02.9	141.0 - 141.9
Salivary glands	C07.9 - C08.9	142.0 - 142.9
Floor of mouth	C04.0 - C04.9	144.0 - 144.9
Gum and other mouth	C03.0 - C03.9, C05.0 - C05.9, C06.0 - C06.9	143.0 - 143.9, 145.0 - 145.6, 145.8 - 145.9
Nasopharynx	C11.0 - C11.9	147.0 - 147.9
Tonsil	C09.0 - C09.9	146.0 - 146.2
Oropharynx	C10.0 - C10.9	146.3 - 146.9
Hypopharynx	C12.9, C13.0 - C13.9, C14.1	148.0 - 148.9
Other oral cavity and pharynx	C14.0, C14.2 - C14.8	149.0 - 149.9
Digestive system		
Esophagus	C15.0 - C15.9	150.0 - 150.9
Stomach	C16.0 - C16.9	151.0 - 151.9
Small intestine	C17.0 - C17.9	152.0 - 152.9
Colorectal		
Colon excluding rectum	C18.0 - C18.9, C26.0	153.0 - 153.9, 159.0
Rectum and rectosigmoid	C19.9, C20.9	154.0 - 154.1
Anus, anal canal and anorectum	C21.0 - C21.2, C21.8	154.2 - 154.3, 154.8
Liver and intrahepatic bile duct	C22.0, C22.1	155.0, 155.1, 155.2
Gallbladder	C23.9	156.0
Other biliary	C24.0 - C24.9	156.1 - 156.9
Pancreas	C25.0 - C25.9	157.0 - 157.9
Retroperitoneum	C48.0	158.0
Peritoneum, omentum and mesentery	C48.1 - C48.2	158.8 - 158.9
Other digestive organs	C26.8 - C26.9, C48.8	159.8 - 159.9

SITE OF CANCER	ICD-0-2* codes	ICD-9 codes
Respiratory system		
Nasal cavity, middle ear and accessory sinuses	C30.0 - C30.1, C31.0 - C31.9	160.0 - 160.9
Larynx	C32.0 - C32.9	161.0 - 161.9
Lung and bronchus	C34.0 - C34.9	162.2 - 162.9
Pleura	C38.4	163.0 - 163.9
Trachea, mediastinum and other respiratory organs	C33.9, C38.1 - C38.3, C38.8, C39.0, C39.8, C39.9	162.0, 164.2 - 165.9
Bones and joints		
	C40.0 - C41.9	170.0 - 170.9
Soft tissue (including heart)		
	C38.0, C47.0 - C47.9, C49.0 - C49.9	171.0 - 171.9, 164.1
Skin (excluding basal and squamous)		
Melanomas of the skin	C44.0 - C44.9 (histologic types 8720 - 8790 only)	172.0 - 172.9
Other non-epithelial skin	C44.0 - C44.9 (excluding histologic types 8000 - 8004, 8010 - 8012, 8070 - 8076, 8090 - 8096, 8720 - 8790 and 9590 - 9989)	173.0 - 173.9
Breast		
	C50.0 - C50.9	174.0 - 174.9, 175
Female genital system		
Cervix uteri	C53.0 - C53.9	180.0 - 180.9
Corpus uterus and uterus NOS	C54.0 - C54.9, C55.9	179, 182.0 - 182.1, 182.8
Ovary	C56.9	183.0
Vagina	C52.9	184.0
Vulva	C51.0 - C51.9	184.1 - 184.4
Other female genital organs	C57.0 - C57.9, C58.9	181, 183.2 - 183.9, 184.8, 184.9
Male genital system		
Prostate	C61.9	185
Testis	C62.0 - C62.9	186.0 - 186.9
Penis	C60.0 - C60.9	187.1 - 187.4
Other male genital organs	C63.0 - C63.9	187.5 - 187.9

SITE OF CANCER	ICD-0-2* codes	ICD-9 codes
Urinary system		
Urinary bladder	C67.0 - C67.9	188.0 - 188.9
Kidney and renal pelvis	C64.9, C65.9	189.0, 189.1
Ureter	C66.9	189.2
Other urinary organs	C68.0 - C68.9	189.3 - 189.4, 189.8 - 189.9
Eye and orbit		
	C69.0 - C69.9	190.0 - 190.9
Brain and other nervous system		
Brain	C71.0 - C71.9 (excluding histologic types 9530 - 9539)	191.0 - 191.9
Other nervous system	C71.0 - C71.9 (histologic types 9530 - 9539 only), C70.0 - C70.9, C72.0 - C72.9	192.0 - 192.3, 192.8 - 192.9
Endocrine system		
Thyroid	C73.9	193
Other endocrine (including thymus)	C37.9, C74.0 - C74.9, C75.0 - C75.9	164.0, 194.0 - 194.9
Lymphomas		
Hodgkin's disease	Histologic types 9650 - 9667 only	201.0 - 201.9
Non-Hodgkin's lymphomas	Histologic types 9590 - 9595, 9670 - 9715 only	200.0 - 200.8, 202.0 - 202.2, 202.8 - 202.9
Multiple myeloma		
	Histologic types 9731 - 9732 only	203.0, 203.2 - 203.8
Leukemias		
Lymphocytic		
Acute lymphocytic	Histologic type 9821	204.0
Chronic lymphocytic	Histologic type 9823	204.1
Other lymphocytic	Histologic types 9820, 9822, 9824, 9825, 9826	204.2 - 204.9
Granulocytic (myeloid)		
Acute granulocytic	Histologic types 9861, 9867	205.0
Chronic granulocytic	Histologic types 9863, 9868	205.1
Other granulocytic	Histologic types 9860, 9862, 9864, 9866	205.2 - 205.9

SITE OF CANCER	ICD-0-2* codes	ICD-9 codes
Monocytic		
Acute Monocytic	Histologic type 9891	206.0
Chronic monocytic	Histologic type 9893	206.1
Other monocytic	Histologic types 9890, 9892, 9894	206.2 - 206.9
Other		
Other acute	Histologic types 9801, 9841	207.0, 208.0
Other chronic	Histologic types 9803, 9842, 9931	207.1, 208.1
Aleukemic, subleukemic and NOS	Histologic types 9800, 9802, 9804, 9827, 9830, 9840, 9850, 9870, 9880, 9900, 9910, 9930 - 9941	202.4, 203.1, 207.2, 207.8, 208.2- 208.9
Ill-defined and unspecified sites	Histologic types 9720, 9723, 9740 - 9741, 9760 - 9764, 9950 - 9989; C76.0 - C76.8, C80.9 (histologic types 8000 - 9589); C42.0 - C42.4 (histologic types 8000 - 9589); C77.0 - C77.9 (histologic types 8000 - 9589)	159.1, 195.0 - 195.8, 196.0 - 196.9, 199.0 - 199.1, 202.3, 202.5 - 202.6

*Unless otherwise stated, all groupings include only invasive cancers (behavior 3) and exclude histologic types 9590 - 9989.
Adapted from Surveillance, Epidemiology and End Results (SEER) Cancer Statistics Review, 1973 - 1995.

APPENDIX II**1970 United States
Standard Million Populations, by Age**

Age	United States Standard Million Population, 1970
All Ages	1,000,000
<5	84,416
5-9	98,204
10-14	102,304
15-19	93,845
20-24	80,561
25-29	66,320
30-34	56,249
35-39	54,656
40-44	58,958
45-49	59,622
50-54	54,643
55-59	49,077
60-64	42,403
65-69	34,406
70-74	26,789
75-79	18,871
80-84	11,241
85+	7,435

APPENDIX III

Alaska's 1997 Population

Population estimates used in this report are provided by the Alaskan Department of Labor, Research and Analysis Section, Demographics Unit (revised May 1999).

AGE GROUP	ALL RACES		WHITE		ALASKA NATIVE		BLACK		ASIAN/PACIFIC ISLANDER	
	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE
0-4	26,421	25,393	17,650	17,114	6,059	5,700	1,231	1,182	1,481	1,397
5-9	29,329	28,042	19,902	18,761	6,704	6,558	1,379	1,411	1,344	1,312
10-14	28,041	26,598	19,749	18,588	5,918	5,664	1,243	1,154	1,131	1,192
15-19	24,048	21,905	16,938	15,470	4,811	4,536	1,328	987	971	912
20-24	16,597	16,333	10,187	10,873	3,853	3,603	1,617	1,027	940	830
25-29	22,285	18,480	15,174	13,042	3,385	3,090	2,536	1,448	1,190	900
30-34	27,166	24,085	20,507	17,868	4,017	3,774	1,386	1,178	1,256	1,265
35-39	31,110	28,987	25,093	22,567	3,568	4,018	1,155	884	1,294	1,518
40-44	30,967	28,757	25,280	22,825	3,385	3,525	1,223	964	1,079	1,443
45-49	26,974	23,269	22,520	18,912	2,652	2,607	894	555	908	1,195
50-54	18,914	16,002	16,160	12,992	1,691	1,941	391	363	672	706
55-59	12,275	10,522	10,231	8,283	1,376	1,546	253	243	415	450
60-64	8,130	7,269	6,500	5,275	1,221	1,320	177	164	232	510
65-69	5,908	5,838	4,682	4,267	862	1,015	131	77	233	479
70-74	4,319	4,593	3,377	3,368	640	759	96	111	206	355
75-79	2,658	3,166	2,143	2,329	359	546	66	90	90	201
80-84	1,256	1,801	1,002	1,362	193	345	22	41	39	53
85+	688	1,185	428	873	187	266	23	23	49	24
TOTAL	317,086	292,225	237,523	214,769	50,881	50,813	15,151	11,902	13,530	14,742

This publication was produced by the Department of Health and Social Services, Division of Public Health, Section of Epidemiology, in order to provide information which may assist in the development and evaluation of cancer prevention and control programs.